

The Berar General Education Society's
Shri R. L. T. College of Science, Akola
(Re-accredited with 'A' Grade by NAAC with CGPA 3.12)



**WORLD CREATIVITY AND
INNOVATION DAY
2021**

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PRINCIPAL MESSAGE



Dr. V. D. Nanoty
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I am Extremely pleased to present the the first issue of the creativity and Innovation Magazine going to be publish by Shri R. L. T. College of Science, Akola. exclusively meant for churning out the talent which bears immense potentiality of sharpening your innovative idea I congratulate all the contributors and the editorial board for bringing out such a beautiful magazine.

It will help the reader and contributor to update their knowledge and will give good exposure to recent development of innovative idea in science and technology. I am confident that this magazine will prove excellent platform to student who are interest in various competition like avishkar and all

A NOTE FROM EDITOR DESK



Dr. P. T. Agrawal
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This is the first issue of the creativity and Innovation Magazine going to be publish by Shri R. L. T. College of Science, Akola.

The aim of the magazine is to provide the platform for the students to publish creativity and Innovation Present in their mind.

As we believe that creativity and Innovations has no limitations of any subject, any languages, creative ideas and Innovations in all disciplines are welcome for the publication in this magazine. We are sure that our magazine will provide creative ideas and Innovations of new generations that will continue to help everyone interested in Research Field. We again hope that the magazine gives rise to Novel Research and many patents come forward through this playform. The help provided by our students is appreciable.

We would like to thank Management, Principal, Teaching and Non teaching staff members for their support towards this magazine. Dr. V. D. Nanoty, Principal , Shri R. L. T. College of Science Akola

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How To Make Incense Stick At A Home

Material :-

Bamboo stick , charcoal dust , rose powder , incense powder .

Introduction:-

Incense sticks are used by many communities in the world daily for performing worships and for special occasion. In India countries used incense sticks in daily for their puja ceremonies. So it has good demand for this business. This Industry has long history and it can be setup with less investment. You require only low technology for manufacturing. Basically sticks are rolled by hands. If you can invest much money you can buy machines also. There are many different types of incense sticks used for different purposes or on different festive days.

Procedure:-

- 1) Bamboo sticks - There are two difference sizes 7" and 10"
- 2) Get incense stickmaking machines.
- 3) Get raw materials.
- 4) Select a proper location and install machinery.
- 5) Staff hiring and training.
- 6) Preparation of Mixture or Masala.
- 7) Load mixture and bamboo sticks into machine.
- 8) Dry in sunlight or use Dryer machine.





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To Determine Which Tea Is More Healthful

Tea is often offered as a healthful drink, but which tea is the most healthful? This project tries to answer that.

Requirements : fruit flies, different tea sample, fruit smash, dish

Procedure:

- 1.) To set up the fruit fly and tea experiment, must create a mixture of tea and fruit fly food.
- 2.) This works best when four different teas to test four different groups of flies. A fifth group is the control group and it will receive fruit fly food with plain water.
- 3.) The tea should be brewed by seeping a tea bag in three tablespoons of boiling water for a set period of time. Then, it should be mixed with fruit fly food.
- 4.) Once the food is prepared, it should be added to five separate vials.
- 5.) Then, each vial receives 10 adult fruit flies.
- 6.) Every day, the fruit flies that remain alive should be removed and transferred to a new vial that contains the same tea and food mixture. This should be repeated until all fruit flies have died.
- 7.) Then determine which food/tea mixture provided the greatest longevity to the flies.



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Paper From Elephant Poop

Requirement :-elephant dung.

Procedure :-

1. Collect the dung of elephant.
2. Wash and boil to sterilize and soften the fibre.
3. Boil waste paper in pressure cooker.
4. Dunch and waste paper mixed together and pound in a mortar.
5. Use adhesive made by water and glue. And add this adhesive in to the paper mix.
6. Place the mixture in a screen frame and allow excess water to drain.
7. Remove the frame and paper allow drying.
8. Paper made into final product.





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BOOK FOUNDER IN LIBRARY

PROCEDURE:-

- Now a days every book contains barcode.
- Using this barcode we can implement a technique in library.
- We just save the author name, book name, barcode, shelf number etc. in computer
- Prefer to put similar subject book in one shelf.
- This list also get displayed on shelf to find out easier.
- This list also contain 1 barcode showing shelf number so as to find out book.
- When we just type the name we would find the book shelf number in one click
- And also find out whether the book is available now or issued by other.
- By using barcode machine entries of issued and returned books in respective account is possible.

Benefits:-

- It will save the time of students who just waste their time in big library to find out shelf and books.
- Faster check in and check out using barcode scanner.
- Paperless management.
- Easy to sort books and avoid the risk of misplacing the books.
- Reduced staff workload and exertion.
- Increase accuracy and efficiency.





Homemade Simple Water Filter

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Materials :-

- Plastic soda or juice bottle
- Vase or tall drinking glass
- Gravel or small stones
- Clean Sand
- Activated Charcoal
- Cotton balls, small cloth or coffee filter
- Gardening dirt
- Water
- Scissors or knife.



Instructions:-

1. Cut off the bottom of an old plastic soda or juice bottle using scissors or a knife.
2. Place the bottle upside down into the vase or tall drinking glass.
3. Place cotton balls, cloth, or a coffee filter inside the bottle as the first layer. The first layer should be about one to two inches thick.
4. Add an inch of activated charcoal as the second layer on top of the cotton layer.
5. Over the charcoal, add about two inches of gravel or small stones as the third layer.
6. Add about three to four inches of clean sand on top of the gravel.
7. Add gravel to the bottle as the final layer. Leave about a half inch of space from the top of the upside down bottle.
8. Add dirt to a glass of water to create muddy water. Alternatively, get creative and add other things like glitter, beads, cooking oil or other materials to make dirty water.
9. Pour the glass of muddy water on top of the homemade water filter and watch the water drip clean into the glass below.



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To Measure the Pollution Level in Your Locality

Introduction:- Lichens are widely used as environmental indicators or bio-indicators. If air is very badly polluted with sulphur dioxide there may be no lichens present, just green algae may be found. If the air is clean, shrubby, hairy and leafy lichens become abundant.

Requirment:- Rock ,Water, milk ,Yogurt.

Procedure :-

- 1) Move rocks to a shady area in the garden.
- 2) Lichen doesn't sustain itself for long in total sunshine.
Spray the rocks
3) generously with a one-time liquid seaweed fertilizer, milk or yogurt. Milk is the most available and is very easy to apply.
- 4) Notice the stones darkening with lichen growth in a few weeks.

Conclusion :-

Lichens are regarded as pollution indicators because they are sensitive to sulphur dioxide (SO_2) and do not grow in polluted areas. Their presence indicates the absence of pollution in an area, and their absence indicates that the area is polluted.





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Innovating Idea Regarding Housework

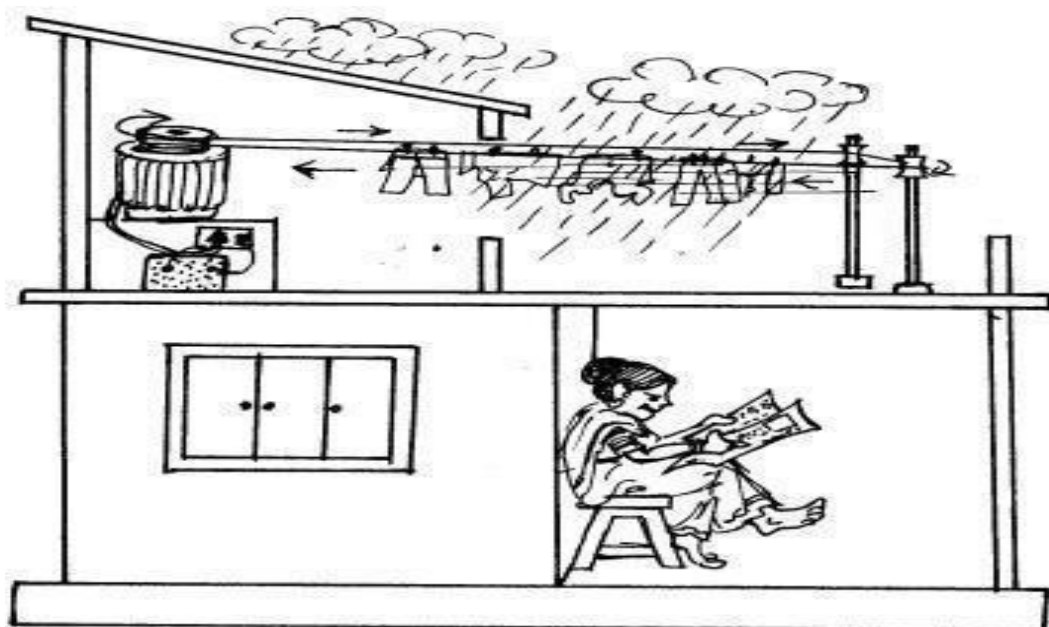
Sub: A Cloth-line That Pulls-in Clothes when it Rains

Apparatus: motor, wire, salt solution, sensor, clothesline etc.

The problem which faced by everyone in daily life that“ clothes off and putting them back on the clothesline many times in a day, especially in the rainy season.” To help save this additional chore, came up with an idea of a clothesline that has a motorized system which works on sensors.

Procedure:

- 1) The motor has wires that are immersed in salt.
- 2)When it rains, the salt absorbs moisture to conduct electricity. This triggers the motor.
- 3) It then pulls the rope inside on which clothes are hung.





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Home DNA Extraction

Requirement : Table salt, Liquid soap, Hot water

Banana, Normal water, sieve, cold isopropyl alcohol.

Procedure :

1. Make a precipitating agent by adding Table salt, Liquid soap and hot water in a beaker.
2. Now take one Banana and chop it in small pieces.
3. Now take chopped Banana in a beaker add water and 5 tablespoon of precipitating agent in it.
4. Now blend this mixture properly.
5. Filter this mixture through the sieve.
6. Add cold isopropyl alcohol to the filtrate.

Observation :

1. The white, fibrous mass which appears in the beaker is DNA.
2. The precipitating agent destroys the Banana cell, and the DNA dissolves in the water.
3. In alcohol, the DNA precipitates as fibers.
4. DNA can also be isolated from peaches and strawberries.



Fig a) Extracted DNA



Fig b) Fibrous DNA



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Free Energy Generation Using Blades (Razor)

Sub :- To produce free energy using blades.

Materials required:- Holder, Wire, Button, Bulb, 2 Bowls,
Salts, Blades (razor), etc.

Procedure:-

- First of all take one holder and insert wire in it .
- Then, take one button and insert the same wire in it.
- After this, take 2 blades & nailed the end points so that Inner thin wires or points will be visible.
- Then bind that inner wire or points with the 2 blades separately,(Note that blades are the important apparatus in this experiment).
- After all this, take 2 bowls , add some salt in it & then pour some water in it almost half bowl should be filled with water.
- Insert those blades that are binded with inner wire or points in that bowls separately.
- Then, fix a bulb with the holder and switch on the button so that our bulb willbe lighten .
- So, here is our experiment which is very helpful in free energy production.





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How To Make Indicator Strips At Home

Requirement : Red cabbage, coffee filter paper, hot water, vinegar, baking soda,

Procedure :

1. Take one dice red cabbage and chop it in small pieces.
2. Transfer it in a heat resistance beaker and add hot water and let it stand for 30 minutes.
3. Now filter the solution through cotton wool.
4. Apply this filtered solution to the coffee filter paper and let it dry for 30 minutes.

Observation :

1. In Vinegar this strip get turn into red (acidic)
2. In Water it does not changes colour (neutral)
3. In Baking Soda solution it turns in blue colour (basic)
4. In Drain cleaner it changes to yellow green colour
(strongly basic)

Red cabbage contain Anthocyanins, which change colours depending up on the acidity of their environment.





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Prevention of Accident From Drowsiness.

Material required:

1. Arduino nano
2. IR sensor
3. 3v battery
4. Switch
5. Transparent glass



Introduction:

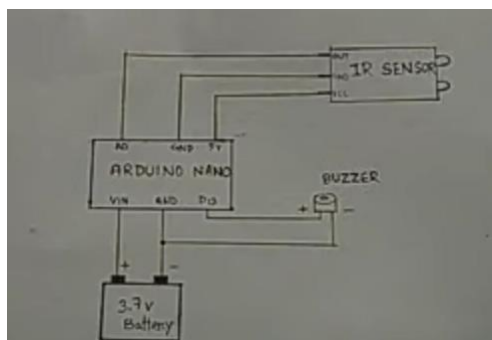
Each year, around 1.5 lakh people die in road mishaps in **India**, some of them **due to 'drowsy or sleep driving'**. This goggles helps prevention of this type of accident..

Procedure:

1. Take a IR sensor and extend the two led with the help of copper wire.
2. Take a transparent glass(goggles) and make the 2 hole by using soldering iron.
3. Place the 3v battery on the handle of goggle and place the IR sensor at the upper side of battery and arduinonano is place on the side of IR sensor .
4. Place the switch below the IR sensor and buzzer is place on the top of module.
5. Stick the all thingor material by using glue gun.
6. Circuit dig.

Result:

1. Driver is wearing this goggles at the time of driving this goggles help to prevent accident from drowsiness or sleeping driving because this goggles indicate with the help of sound .





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How To Make Earthquake Alarm

Introduction

Earthquakes are sudden and cannot be predicted when, where and how harmful it could occur. So here is an instructable for how to make an "earthquake alarm" which could be very helpful especially at the time when people are sleeping. This earthquake alarm cannot predict about the earthquake but can warn or notify you while the earthquake is happening.

STEP 1: MATERIAL AND TOOLS REQUIRED

- one relay (5v or 12v)
- one slide switch
- one 9v battery with connector
- one pcb standoff screw
- two screws 3mm and 1 nut
- one slide switch
- copper wire (38 swg , 1foot long)
- two red led (3mm)
- one zero pcb board
- solder and soldering iron
- glue gun
- iron sheet strip (0.5mm thick , 10cm x 1cm)
- one AA size cell
- flexible wire

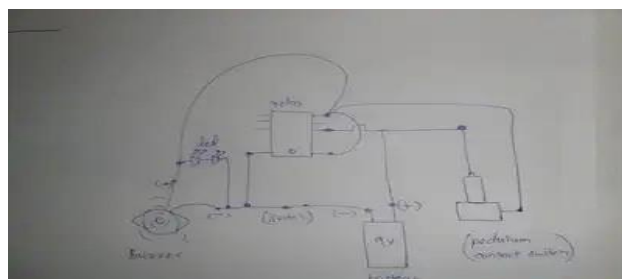


STEP 2: PENDUMUL SWITCH

Take the metal sheet (you can also use thick aluminium foil) and cut 1cm wide strip about 10 cm long. -now take the AA size cell and roll the metal strip to make a NINE (9) shape as shown in pictures. -measure about 2 cm and cut the rest of strip (still maintaining the '9' shape).

-now take the pcb standoff screw and screw up the 3mm screw into it. -take about 5cm of copper wire and make a loop shape by winding it on the standoff screw, after that solder it to make it fixed and conducting. now take the rest of copper wire and solder it to the loop on the standoff screw. now with the help of screwdriver, make a hole on the pcb for the 3mm screw and fix the screw on pcb as shown in pictures

STEP 3: CONNECTIONS





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Home made Neem soap

Requirements:- Neem leaves, soap base, Aloe vera gel, vitamin E capsule, etc

Procedure:-

1. Take handful of fresh neem leaves and wash them thoroughly.
2. Put them in mixer jar and blend them to make a paste.
3. Take an empty container and grease it with petroleum jelly.
4. Take a soap base and cut it into cubes
5. Melt the soap cubes in a microwave or on a gas stove using a double boiler method.
6. Add one tablespoon of neem leaves paste one tablespoon of Aloe vera gel and one capsule of vitamin E oil.
7. Pour the mixture into empty container freeze it for about an hour
8. After an hour remove the soap from freezer and it is ready to use.
9. We can use this soap on our whole body it will help us to fight against acne and pimples.





Mosquito Repellent Candle

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Requirements- Glass jar, Wax/plan white candle, Neem leaves , Lemon grass, camphor, eucalyptus oil, colour drops

Procedure:

- 1) Take a glass jar of any size available in home. Fixed the wick to the bottom of jar by using tape
- 2) Take 20-30 Neem leaves, few lemon grasses, 4-5 camphor balls and grind it finely
- 3) Melt the wax/ white candle in the separate boil. Once liquid it will clear then add grinded mixture in the liquid wax and stir
- 4) Add roughly 3-4 drops of eucalyptus oil , few drops of colour(as per choice) and mix thoroughly.
- 5) Pour the wax mixture in the glass jar, try to keep wick centered in the jar.
- 6) Once the candle has cooled trim the wick to half inch from the surface of candle
- 7) Light up the candle around the deck or wherever you sit to create mosquito free zone

AS ALL THE ADDED INGREDIENTS ARE KNOWN FOR THEIR MOSQUITO REPELLENT PROPERTY, IT WORKS GREAT. ENJOY YOUR SUMMER.





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Personal Hygiene Care Tips

- Cleaning around the home and regularly is an important precaution to lower the risk of infection.
- Try to go a time when there are fewer people
- Maintain physical distance to other people
- Wear disposable gloves if available, disinfect the surfaces of all machines you use and don't touch your face
- Wash your hands with soap and water, or use an alcohol-based hand rub, immediately afterwards.

And also use Sanitizer and stay home stay safe and leave healthy and happy





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Ayurvedic Immunity Booster Kadha

Ingredients: Water 2 Cups, Turmeric Powder 1/4 Tsp, Crushed Ginger 1 Tsp, (Sounf) fennel seeds 1 TSP, (Ajwain) Carom seed 1 tsp, (Jeera) cumin seed 1/2 tsp, (long) cloves, cinnamon Powder, (Tulsi) 10 small leaves & honey. 1 Tsp.

Natural Turmeric Ginger

Tea Benefits for your health

The impressive benefit of turmeric ginger tea may include eliminating inflammation, strengthening the immune system improving digestion, soothing pain, it can aid in protecting the heart and improving skin quality.

- Eases arthritis symptoms
- Helps prevent Alzheimer's disease
- Helps prevent cancer
- Maintains ulcerative colitis remission.
- Boosts the immune system.
- Lowers cholesterol
- Can help treat uveitis.



To make turmeric tea at home, follow these steps

- Boil Two Cups of water on the stove
 - Add 2 teaspoons of turmeric Powder
 - Add ginger paste, and fennel powder, carom powder, cumin powder all are 1 TSP
 - Then add tulsi, long, cinnamon powder.
 - Simmer for about 5 to 10 minutes.
- Then add honey 1 Ts





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Homemade Sunscreen Cream Cum Moisturizer

As in summer days we need to protect our skin from UV rays. Here is a homemade natural sunscreen cream, which consists of basic ingredients.

Ingredients:-

Coconut oil, vitamin E capsule, aloe Vera gel, and last green tea packs (unused).

Here is the procedure :-

- 1) Take 2 spoon coconut oil in bowl & add green teapacks (2).
- 2) Heat the above mixture indirectly i.e. by double boilers method.
- 3) Now strain the mixture with the help of strainer.
- 4) Now add Vit. E capsule (2) and 1 & 1/2 table spoon aloe gel.

You can skip vitamin E capsule if you have oily skin.

- 5) Stir your mixture continuously until you get its creamy texture.
- 6) Store it in air tight container for 2-3 weeks.

(These sunscreen also moistures your skin)

Tip:- Freshly prepared cream will give the best result.



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Social Distancing Smart Device For Covid-19

• Social distancing device for Covid-19

- 1) The virus that causes Covid-19 spread easily through the physical contact from person to person.
- 2) Due to this it is important to reduce the way people contact with one another.
- 3) For this we can make a social distancing device by using an ultrasonic sensor at home.

How it works

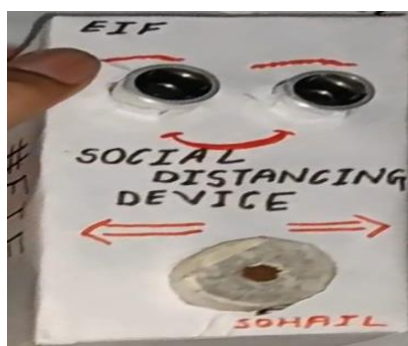
- 1) If the distance between you and people is less than 1 meter then the device turns on the buzzer and vibration occurs, indicating you have to maintain social distancing.
- 2) If the space is greater than 1 meter then the device automatically turns off.
- 3) This is a great project which we can make easily at home.

Requirements :

Arduino Uno/Arduino Nano, ultrasonic sensor, buzzer, vibrator motor, 9v battery with clip, switch, cardboard box, some velcro stripes, etc.

Procedure:

- 1) Take a cardboard box and velcro strip in the box.
- 2) Take a front part of the box and stick the ultrasonic sensor, vibrator motor.
- 3) Take Arduino and upload the code.
- 4) After uploading the code, stick Arduino in the box and battery in the box.
- 5) Now do connection with circuit.
- 6) Stick the front part on the box and check for its working.
- 7) Now decorate the box and stick with velcro to the hand.





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Biodiesel Is An Alternative Fuel

Requirements- 500 ml of 120f° oil is combined with 137 ml of potassium ethoxide and allowed to react in a blender for 10 min. This was transformed to a jar to allowed the biodiesel and glycerine to separate into two layer. The glycerine was removed and the biodiesel was washed and removed excess of water and alcohol. The 100 percent biodiesel fuel b100 soy and b100 corn were burn and recorder the same a way the results were compares

Results:- the 100%biodiesel fuels b100 soy and b100 corn performed equally well in burning tested they burn the same height and had flame same shape and colour the pure soya oil burned 25-30 % the height of the b100 soya the same soya did have same shape and colour of biodiesel flame and just smaller





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Ayurvedic Medicine For Fallopian Tube Blockage

• What is Fallopian tube blockage?

If a fallopian tube is blocked, the passage for sperm to get to the eggs, as well as the path back to the uterus for the fertilized egg, is blocked.

Common reasons for blocked fallopian tube include scar, tissue infections and pelvic adhesions.

• Symptoms of blocked fallopian tube:

Blocked fallopian tubes don't often cause symptoms many women don't know they have blocked tubes until they try to get pregnant and have trouble. In some cases, blocked fallopian tubes can lead to mild regular pain on one side of the abdomen, this usually happens in a type of blockage called a **hydrosalpinx**.

• Home remedy for blocked tubes:

Ingredients: Castor Oil / Olive oil

Methods:

- Using Olive oil or Castor oil fertility massage of lower abdomen area daily.
- Regularly take the food which contains antioxidant materials.

(For e.g. Garlic, ginger, turmeric, dalchini, cinnamon, vitamin C containing food). Most effective of pranayama and yogasana specifically 1. **Kapalbharti** There are three magical rolls of to help the fall 2. **Anulom – vilom** open tube to get healthier or to open.

Health Benefits:

- ❖ The medicine we take from this treatment doesn't cause any injury to our health or human body.
- ❖ It's helpful to avoid measure harmful surgeries.
- ❖ The costly test like SHG etc. due to this treatment it saves that money.

