Good Morning, everyone. Good Morning Ma’am. Today I, Varun Gaur and I, Vinit Patel, like to present you a short presentation regarding the topic “Safely Applications in Daily Lives”. Did you ever thought by yourself, that how this safety appliances plays a unique role in our daily lives? I shall consider them as ‘Everyday Heroes’. So without wasting our time, lets dig in.

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Lets start from the scratch. Here we use three different wires of having different color, different characteristics, in different positions when they were applied at load.

The Red or Live Wire signifies the phase of level of electric circuit, which must not be connected with any other Red or black wires.

Whereas, the black wire plays a neutral role at that, but it can connect with other black wires. Not with others which doesn’t match the color with black.

Green wires, are for earthing or grounding, in terms of connecting wires, it has similar characteristics with black. And can used for socket purpose. Sockets are generally used in such appliances like TV, Geyser, Microwave, etc.

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Now we come to the point, how am electric circuit works in an domestic level. Here is the schematic diagram, playing every wires and required instruments a different role.

Here, all the supply goes to Live/Red Wire (carrying Voltage Supply of 220-230V AC and current, which all comes from a transformer or generator.

Then it goes to electric fuse (I/Varun will explain its role later). After that it reaches for Electricity Meter which is used to measure the amount of electricity that we use; it lies between the incoming electric power or gas lines and the point of distribution at residential homes or offices.

After that, the whole supply goes to load, where every load tends to drop potential difference and unless it turns for 0 volts.

And Keeping in mind that current just divides in parallel, and remains same in series, the circuit is united after passing through each load of every houses. And for that Neutral/Black wire is used. That means, this black wire carries the same amount of current with 0 Voltage!

But wait a minute, we haven’t mentioned the green wire. Now, this presentation will be handed over to Varun

Yes. Green Wire plays a very important role, in such circuits. While you might understood live and neutral wire plays a common role, viz to pass current and voltage supplies. But why are we using green wire?

(Chuckling)Now again without questioning more let me show you its answer.

Sometimes the appliances and loads create some current differences which can be led to short circuits. To avoid such dangerous cases, green wires. If live wire and neutral wire doesn’t carries the same amount of currents, then those current differences are later grounded.

Also, it says after its name.

Ultimately, it reduces the risk of overload fires by redirecting excessive electricity during a short circuit.