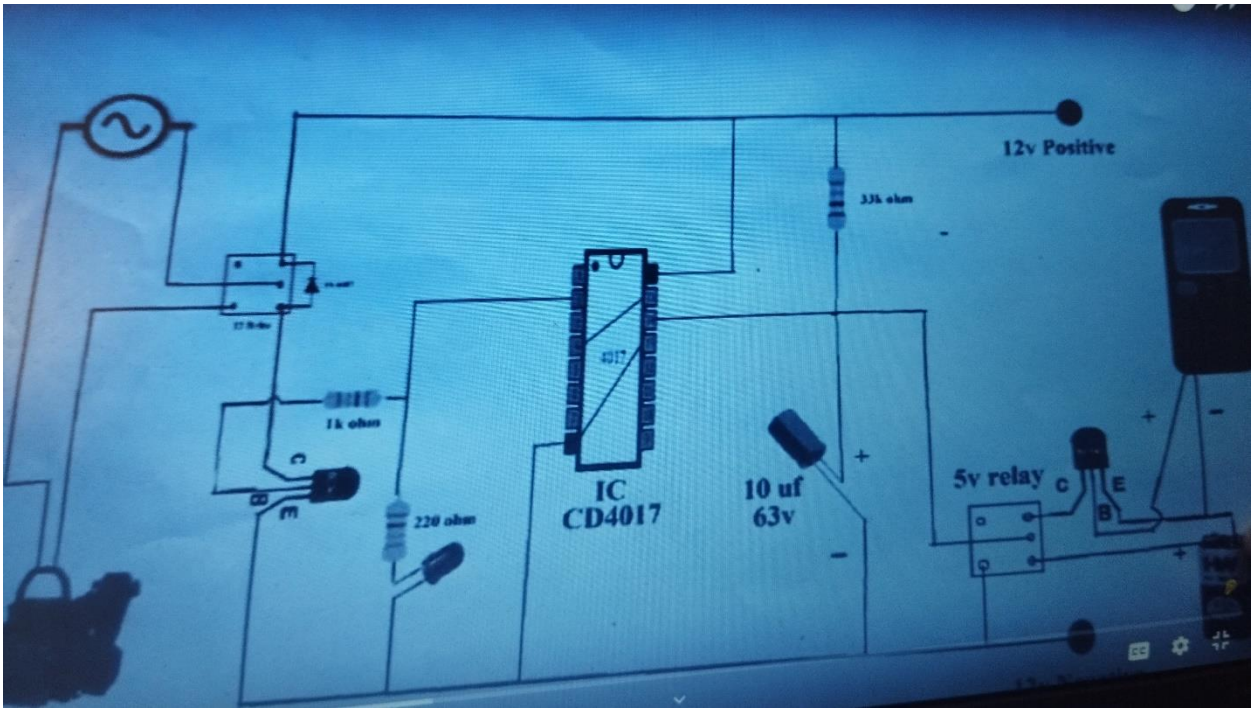
Turning on and motor motor wireleesly through simple mobile phone.



Here is the schematic of project.In this project we can turn on and off motor wirelessly through mobile phone.

Here motor can be turned on and off through simple mobile phone.There should be sim card in this phone and when user will give misscall on this number then motor wil get turn on and on second miscall motor will get turn off.

Here I have added one 1k resistor to the base of right side transistor .

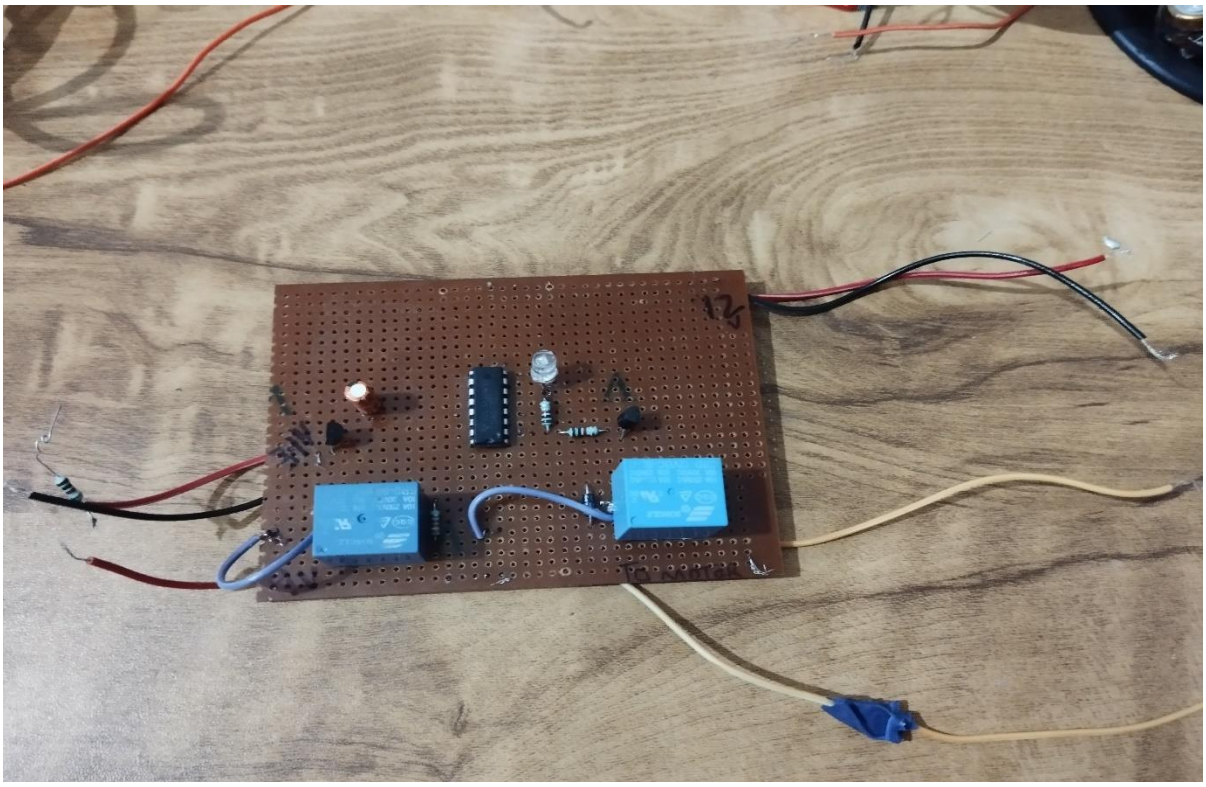
Cost estimation for the project.

Components	Cost
Nokia Basic Mobile Phone	1000
IC-CD4017	15
6V-Relay	20
12-Relay	20
BC-547 NPN TRANSISTOR(2)	80
10 uf capacitor(63 volt)	6
220 ohm,33k ohm,1k ohm resistor	10
1N4007 Diode(2)	10
9v Battery	25
12 v battery	70
Fuse	5
10 x 8 cm pcb	5
Total Cost	1266

I have created pcb according to schematic.

1) Here on right side 12 volt supply is given.Red is positive and black is negative.
2) As shown in figure there are two yellow wires on the right bottom side.And this wires connect to motor.Here I will be connecting negative terminal of motor to this yellow wire.Cut negative wire of **motor**

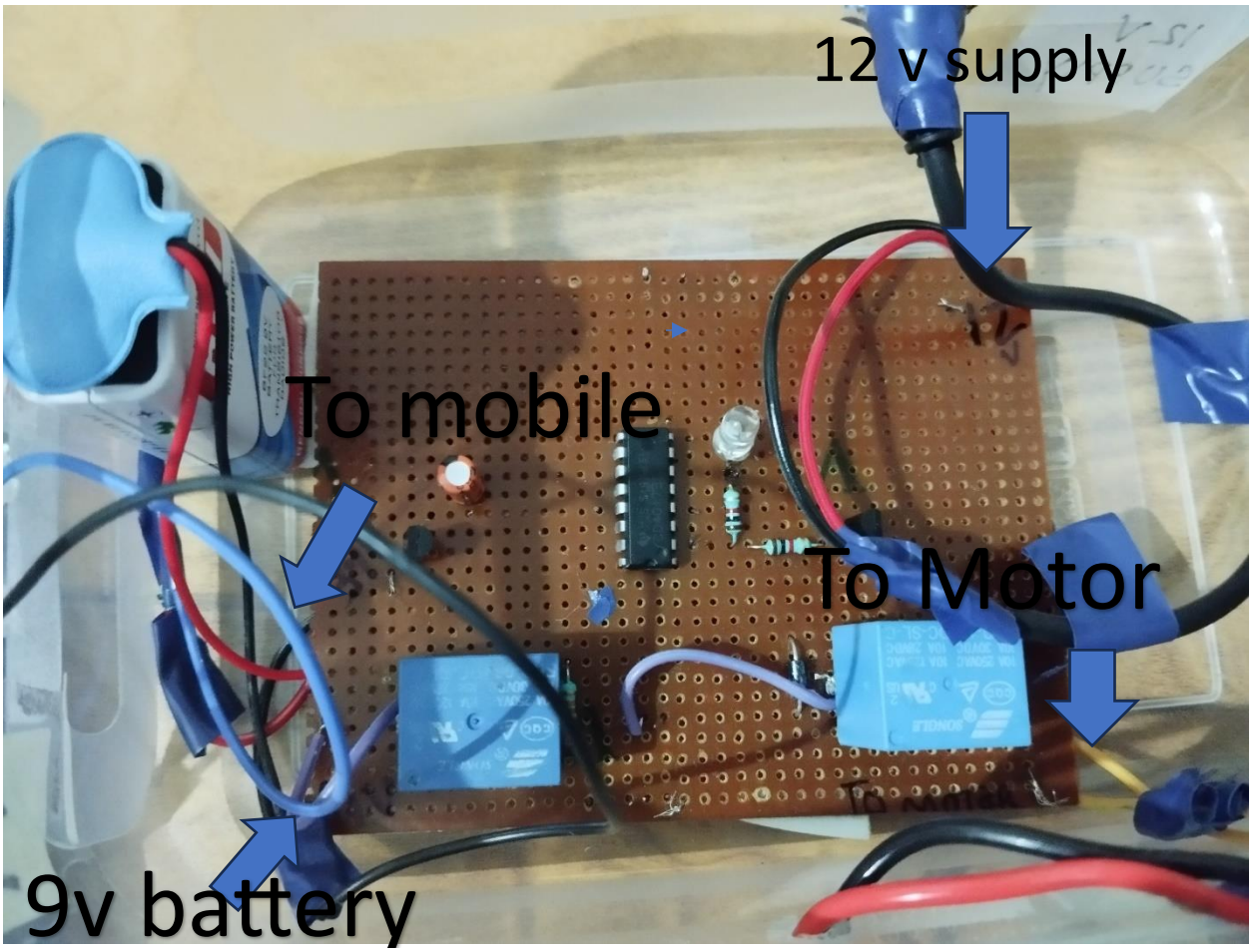
from between and connect one end to one yellow wire and another end to another yellow wire.This yellow wire are connected to relay .



3)Here the red and black wire in the left side is connected to mobile phone.As whenever mobile is getting miscall a trigger of 3.5 volt is sent to transistor and 6v relay gets turn on.

4)Here on the left bottom side 9v supply is given through battery.Connect positive terminal of battery to this red wire and negative terminal of battery to black wire.

Connection of pcb after connecting it to mobile phone ,9v battery,12 v supply and motor.



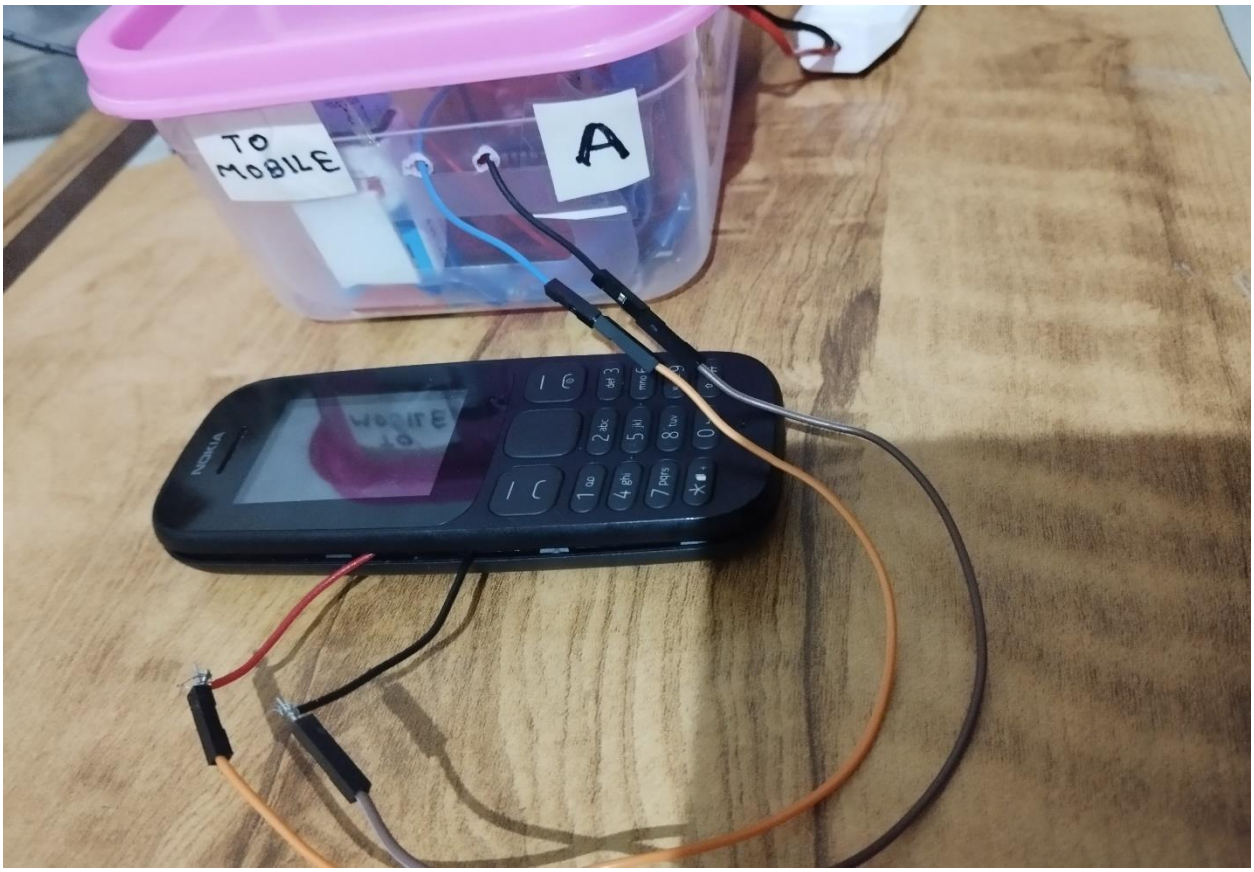
Here as shown in figure connect 9v battery at the bottom left side red and black terminals.

Connect 12v supply at the top right side.

Connect motor negative terminal to yellow wires.Cut the negative terminal of wire from between and connect one

end of negative wire with yellow terminal and another negative terminal with another yellow wire.

Pcb Assembeled in a box.



Here box A side is connected to mobile phone.

Connect orange wire of mobile with blue wire of box and grey wire of mobile with black wire of box.

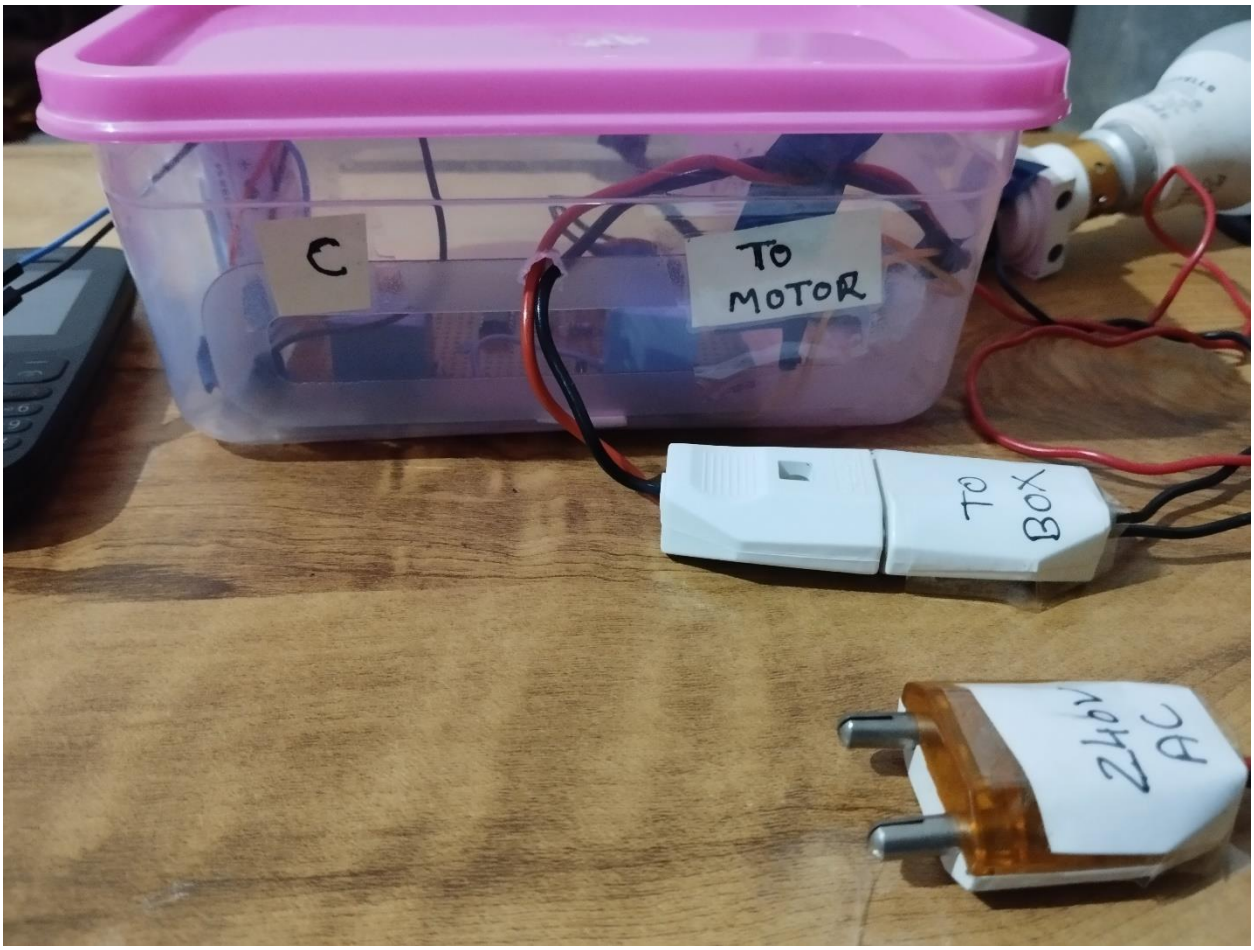
Here after any miscall a 4 volt voltage is received at this terminal

Box B side

Here box B side is having 12 v supply connection.

Whenever the device is in use connect the 12v supply to this connector.

Box c side



Here box c side is connected with motor.

Connect white plug to box.

Now to make this plug cut the negative terminal of motor from between and connect one end of plug with one negative terminal and another end of plug

with another negative terminal.Now Connect the orange plug to main ac supply.

Final project demo video

Here is the video of final project working demo.

motor on off.mp4

Connecting mixer to this device.

mixer on off.mp4

Notes.

As a simcard is inserted in device so everymonth minimum recharge of 200 is required to keep on incoming calls.

Now this device gets on when the keypad light gets on.

So the keypad lights gets on when user press any key in phone at that time also motor will get turn on.

Now the keypad light also gets when its receive calls.

So while receiving call from any another number also device will get on.

So dnd should be activated to stop receiving call from another number.

And also device gets on when it receives message.

So all the company number should be blocked from where message is received.