

# **Intruder alarm:**

**Introduction:** In this project we are going to make intruder alarm using Raspberry Pi and PIR sensor

## **Components:**

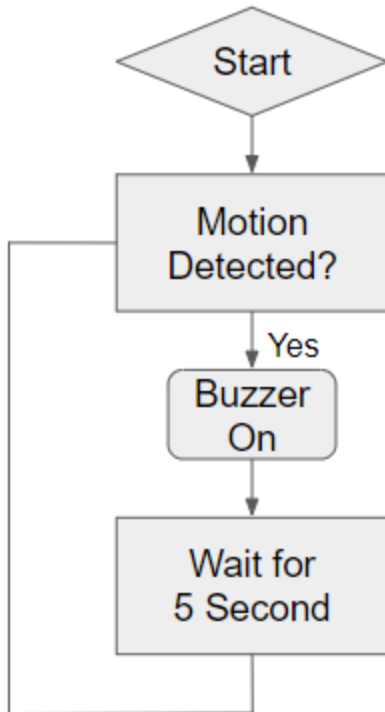
- Raspberry Pi
- Breadboard
- PIR Sensor
- Buzzer
- Jumper wires

## **Application:**

- Automatic Room Light
- Motion Detection
- Intruder Alert
- Automatic Door Opening
- Home Security System

**Objective:** We can make an intruder alarm using this project.

## **Flow chart:**



### Code:

```
import RPi.GPIO as GPIO
import time

sensor = 23
buzzer = 24

GPIO.setmode(GPIO.BOARD)
GPIO.setup(sensor,GPIO.IN)
GPIO.setup(buzzer,GPIO.OUT)

GPIO.output(buzzer,False)
print "Initializing PIR Sensor....."
time.sleep(12)
print "PIR Ready..."
print " "
```

```
try:
    while True:
        if GPIO.input(sensor):
            GPIO.output(buzzer,True)
            print "Motion Detected"
            while GPIO.input(sensor):
                time.sleep(0.2)
        else:
            GPIO.output(buzzer,False)

except KeyboardInterrupt:
    GPIO.cleanup()
```

**Hardware Connection:**

PIR Vcc - 3.3V

PIR GND - GND

PIR Out - GPIO23

Buzzer Anode - GPIO24

Buzzer Cathode - GND

**Circuit Diagram:**

