## **ASSIGNMENT-01**

## **IOT ENABLED CODING**

ASSIGNMENT NUMBER	01
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## WRITE A CODE TO AUTOMATE THE HOME USING VARIOUS SENSORS

## **PROGRAM**

```
int flexSensor = A2;
int buzzer = 6;
int lights = 5;
void setup()
 Serial.begin(9600);
 pinMode(flexSensor, INPUT);
 pinMode(buzzer, OUTPUT);
 pinMode(lights, OUTPUT);
}
void loop()
 bool door = checkDoor(); // true if door is open
 doorAction(door);
}
bool checkDoor()
{
 if(map(analogRead(flexSensor),100,1000,0,1000)>500)
```

```
{
  // door closed
  return(false);
 else
 {
  return(true);
}
}
void doorAction(bool door)
 if(door)
 {
  // if door is opened, buzzer rings for 1 sec and lights are turned on for a total of 5 secs
  digitalWrite(buzzer,HIGH);
  digitalWrite(lights,HIGH);
  delay(1000);
  digitalWrite(buzzer,LOW);
  delay(4000);
  digitalWrite(lights,LOW);
 }
}
```

