

ASSIGNMENT-01

IOT ENABLED CODING

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

PROGRAM

```
#include <Servo.h>
```

```
int pir = A1;
```

```
int servoPin = 9;
```

```
Servo myservo;
```

```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  myservo.attach(servoPin);
```

```
  myservo.write(0);
```

```
  pinMode(pir, INPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  if(motionDetected())
```

```
  {
```

```
    myservo.write(90);
```

```
    delay(5000);
```

```
    myservo.write(0);  
  }  
  delay(1000);  
}  
  
bool motionDetected()  
{  
  Serial.println(analogRead(pir));  
  if(analogRead(pir)>100)  
    return(true);  
  else  
    return(false);  
}
```

