Assignment -1
C Program

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

Make a Smart Home With 2-3 Sensors, LED, Buzzer in Single Code and Connections.

Solution

```
#include<Servo.h>
Servo s;
void setup()
{

  pinMode(2,INPUT);
  Serial.begin(9600);
  pinMode(12,OUTPUT);

  pinMode(12,OUTPUT);
  Serial.begin(9600);

  pinMode(8,OUTPUT);

  s.attach(9);

}

 void loop()

{

  int b = analogRead(A0);
  if(b >=300)
  tone(8,1000,500);
  delay(1000);
  noTone(8);
  delay(1000);


  if(b>=300)
  digitalWrite(12,HIGH);
  delay(1000);
  digitalWrite(12,LOW);
  delay(1000);

  if(b>=300)
  for( int i=0;i<=180;i++)
    s.write(i);
  for( int i=180;i>=0;i--)
    s.write(i);


  int a =digitalRead(0);
```

```
  if(a==0)
  digitalWrite(12,HIGH);
  else
  digitalWrite(12,LOW);
  delay(1000);

  if(a==0)
  tone(8,1000,500);
  delay(1000);
  noTone(8);

  if (a==0)
  for( int i=30;i<=180;i++)
     s.write(i);
  for( int i=180;i>=30;i--)
     s.write(i);

}
```