

Assignment -1

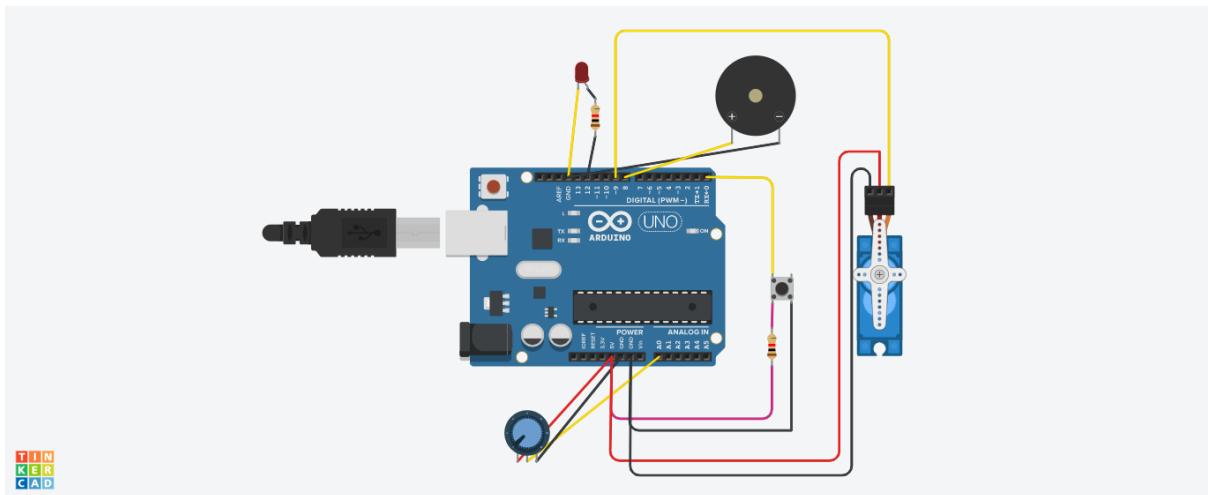
C Programming

Assignment Date	19 September 2022
Student Name	M.B.Betsy
Student Roll Number	821219104005
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);
```

```
}
```