

Assignment -1

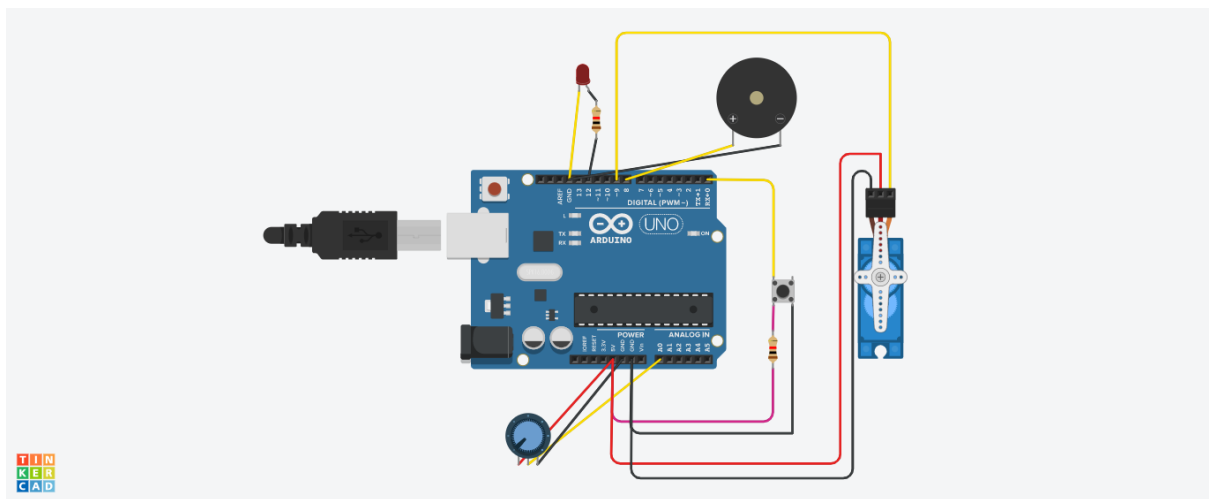
C Programming

Assignment Date	19 September 2022
Student Name	G.Harini
Student Roll Number	821219104008
Maximum Marks	2 Marks

Question-1:

Make a smart home with 2-3 sensors,LED,Buzzer in sigle 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);  
  
}
```