1. LED BLANKING PROGRAM

```
void setup()
{
  pinMode(4, OUTPUT);
}
void loop() {
  digitalWrite(4, HIGH);
  delay(100);
  digitalWrite(4, LOW);
  delay(100);
}
```

2. SERVO

```
#include <Servo.h>

Servo myservo

int pos = 0;

void setup()

{

  myservo.attach(9);

}

void loop()

{

  for (pos = 0; pos <= 180; pos += 1)

  {

    myservo.write(pos);

    delay(15);

  }

  for (pos = 180; pos >= 0; pos -= 1)

{

  myservo.write(pos);

  delay(15);

  }

}
```

3. ULTRASONIC SENSOR

```
const int pingPin = 7;           // Trigger Pin of Ultrasonic Sensor
const int echoPin = 6;          // Echo Pin of Ultrasonic Sensor
void setup() {
  Serial.begin(9600);            // Starting Serial Terminal
}

void loop()
{
  long duration, inches, cm;
  pinMode(pingPin, OUTPUT);
  digitalWrite(pingPin, LOW);
  delayMicroseconds(2);
  digitalWrite(pingPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(pingPin, LOW);
  pinMode(echoPin, INPUT);
  duration = pulseIn(echoPin, HIGH);
  inches = microsecondsToInches(duration);
  cm = microsecondsToCentimeters(duration);


  Serial.print(inches);
  Serial.print("in, ");
  Serial.print(cm);
  Serial.print("cm");
  Serial.println();
  delay(100);
}

long microsecondsToInches(long microseconds)
{
  return microseconds / 74 / 2;
}

long microsecondsToCentimeters(long microseconds)
{
  return microseconds / 29 / 2;
}
```

4. TEMPRATURE

```
float temp;
int tempPin = 0;

void setup()
 {
Serial.begin(9600);
}

void loop()
 {
  temp = analogRead(tempPin);
  temp = temp*0.48828125;
  Serial.print("Temprature = ");
  Serial.print(temp);
  Serial.print("*c");
  Serial.print();
  delay(1000);
}
```

5. Embedded C

```
#include<avr/io.h>

#define F_CPU 16000000UL

#include<util/delay.h>


Int main(void)

{

 While(1)

{

 DDRB|=(1<<PB5);

PORTB|=(1<<PB5);

_delay_ms(500);

PORTB&=~(1<<PB5);

_dekay_ms(500);

}

return 0;

}
```