Basic code for RTC

#include<Wire.h>

#include<RTClib.h>

String dayOfWeek[]= {"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"};

RTC\_DS3231 rtc;

void setup() {

  // put your setup code here, to run once:

  rtc.begin();

  Serial.begin(9600);

  //rtc.adjust(DateTime(F(\_\_DATE\_\_), F(\_\_TIME\_\_)));

}

void loop() {

  // put your main code here, to run repeatedly:

  DateTime present= rtc.now();

  Serial.print("Date: ");

  Serial.print(present.day());

  Serial.print("/");

  Serial.print(present.month());

  Serial.print("/");

  Serial.print(present.year());

  Serial.print("       ");

  Serial.print("Time: ");

  Serial.print(present.hour());

  Serial.print(":");

  Serial.print(present.minute());

  Serial.print(":");

  Serial.print(present.second());

  Serial.print("       ");

  Serial.println(dayOfWeek[present.dayOfTheWeek()]);

  delay(1000);

}

Basic code for ServoMotor

#include <Servo.h>   // Library for controlling the servo motor

Servo myServo;   // Create a Servo object

void setup() {

  myServo.attach(5);  // Attach the servo to the defined pin

 // myServo.write(servoPosition);  // Set initial servo position

}

void loop() {

  myServo.write(0);  // Set initial servo position degree

  delay(500); // stay 1 second after rotate

  myServo.write(90);

  delay(2000);

  myServo.write(180);

  delay(1000);

  for(int i=180; i>=0; i-=5) // for reverse rotate slowly

  {

    myServo.write(i);

    delay(200);

  }

}

For motor and RTC combined

#include <Wire.h>

#include <RTClib.h>  // Library for RTC

#include <Servo.h>   // Library for Servo

RTC\_DS3231 rtc;      // Create RTC object

Servo myServo;       // Create a Servo object

void setup() {

  Serial.begin(9600); // Initialize Serial Monitor

  rtc.begin();

  myServo.attach(10);  // Attach servo to pin 10

  // Initialize RTC

  if (!rtc.begin()) {

    Serial.println("Couldn't find RTC");

    while (1); // Stop execution if RTC not found

  }

  if (rtc.lostPower()) {

    Serial.println("RTC lost power, setting default time.");

    rtc.adjust(DateTime(F(\_\_DATE\_\_), F(\_\_TIME\_\_))); // Set RTC to compile time

  }

  myServo.write(0); // Initialize servo at 0 degrees

}

// yeasin function

bool isOverweight(); // will check if there is enough food dropped

void loop() {

  DateTime now = rtc.now(); // Get current time from RTC

  // Servo activation conditions

  if (now.hour() == 9 && now.minute() == 0)

 {

    if(isOverweight() == false) // kuttay khaise

    {

      myServo.write(90);

      while(isOverweight() == false)

      {

        delay(50);

      }

      myServo.write(0);

    }

  }

  else if (now.hour() == 15 && now.minute() == 0)

  {

    if(isOverweight() == false) // kuttay khaise

    {

      myServo.write(90);

      while(isOverweight() == false){

        delay(50);

      }

      myServo.write(0);

    }

  }

  else if (now.hour() == 21 && now.minute() == 0)

  {

    if(isOverweight() == false) // kuttay khaise

    {

      myServo.write(90);

      while(isOverweight() == false){

        delay(50);

      }

      myServo.write(0);

    }

  }

}