**#include<Servo.h>**

**Servo myservo;**

**int pos = 0;**

**int analogPin=A0;**

**int buzPin=5;**

**int dcPin=6;**

**int threshold=400;**

**void setup()**

**{**

**pinMode(buzPin,OUTPUT);**

**pinMode(dcPin,OUTPUT);**

**myservo.attach(7);**

**}**

**void loop() {**

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

**int analogValue=analogRead(analogPin);**

**if(analogValue<threshold){ //when ir==0 i,e;when the disc is present dc motor and servo gets on**

**digitalWrite(buzPin,LOW);//sinscr ir == 0(disc is present)so the buzzer is not blowing**

**digitalWrite(dcPin,LOW);//when ir sensor senses the disc dc motor on**

**delay(5000); //after dc motor is on for 5 sec then the servo will start**

**for(pos = 0; pos < 180; pos += 1) // goes from 0 degrees to 180 degrees(after some modifications**

**//in the servo motor,it rotates 360 degrees for the same program**

**{ // in steps of 1 degree**

**myservo.write(pos); // tell servo to go to position in variable 'pos'**

**delay(15); // waits 15ms for the servo to reach the position**

**}**

**}**

**else{ //when ir == 1 i,e;when there is no disc**

**digitalWrite(buzPin,HIGH);//ir == 1, buzzer blows for 30 sec**

**delay(30000); // 30 secs delay**

**digitalWrite(dcPin,HIGH);// After 30 secs,the motor stops**

**}**

**}**