#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  
}  
}