3. Control any two actuators connected to the Levelopment board using Bluebooth. To corntrol the speed and direction of a de motor with Arduino using bluetooth and Andriod application we will use HC-05 Bluetooth module to establish the Bluetooth connection between Andriod app and Arduno. HC-05 bluetooth will be used to Communicate with Ardvino using an Android application known as the Sz Terminal. Required Equipment 1. Arduino 2. L20830 Motor deiver Ic 3. 2 DC Motors 4. HC-05 bluebooth module 5. Breadboard and connecting wires. Source code motoripin = 3; int motoripin2 = 4; int enablellin =2; int motor2Pin1 =8; int motorapine =9; int epable 2 Pin = 11; int state; int int flag = 0; stateStop=0; int

```
Void setup () &
Pin Mode (motor/Pin/, OUTPUT);
p'in Mode (motor/Pinz, OUTPUT);
pinMode (enable1Pin, OUTPUT);
pinMode (motorsfin1, OUTPUT);
pinMode (motorsPine, OUTPUT);
pinMode (enable2 Pin, OUTPUT);
digital Write (enable 1Pin, HIGH);
 digitalWrite (enable2Pin, HIGH);
 Serial. begin (9600);
 void loop() of
 if (Serial.available ()>0) &
 State = Serial · read ();
 flag = 0;
 if (state == 1') &
digitalWrite (motor/Pin/, HIGH);
digitalWrite (motorIPinz, HIGH);
digital Write (motore Pini, LOW);
digital Weite (moto82Pine, HIGH);
if (flay -= 0) &
Serial print In ("Go Forward!");
```

```
flag=1;
 Jelay (3000);
 state = 3;
 stateStop =1;
 else if (state == '2') &
 digitalwrite (motor/Pint, HIGH);
 digitalWrite (motoriPine, LOW);
 digitalWacite (motoralini, Low);
 digitalWrite (moto82 Pin2, LOW);
 if (flag = = 0)6
 Serial println ("Two LEFT");
 flag =1;
 delay (3000);
 state=3;
 state Stop=1;
dse if (state == 131) state Stop == 1) &
digitalwrite (motorifini, Low);
digital Write (motor 1Pinz, LOW);
digital Write (motor 2 Pin1 /Low);
digital Write (motor2 Pin 2, LOW);
```

```
if (flag ==0) &
Serial . paintln ("STOP!");
flag=1;
statestop=0;
else if (state == 14') g
digital Write (motor 1 Pin1, LOW);
digital Write (motor 1Pin 2, Low);
digital Write (moto82 Pin1, LOW);
digital Write (moto & Pine, HIGH);
if (flag==0) &
 Serial println ("Twon RIGHT");
flag=1;
 delay (3000);
 state = 3;
state Stop=1;
else if (state == 15') f.
digitalwrite (motor/Pin1, LOW);
digital Write (motor 1Pin2, HIGH).
digital Write (motors Pin 1, HIGH);
digitalWrite (motorzpinz, 20W);
```

if (flag ==0) & Serial paintln ("Reverse!"); delay (3000); state = 3; state Stop =1; is benedicted solvened. der wolf dot sell is to