Task(6): “RC Car”

```
#define speedL 10
#define IN1 9
#define IN2 8
#define IN3 7
#define IN4 6
#define speedR 5
char Reading;

void setup() {
Serial.begin (9600);
for (int i=5; i<=10; i++)
{
pinMode (i, OUTPUT);
}
}
void forward()
{
digitalWrite (IN1, HIGH);
digitalWrite (IN2, LOW);
digitalWrite (IN3, HIGH);
digitalWrite (IN4, LOW);
analogWrite (speedL, 150);
analogWrite (speedR, 150);
}
void backward()
{
digitalWrite (IN1, LOW);
digitalWrite (IN2, HIGH);
digitalWrite (IN3, LOW);
digitalWrite (IN4, HIGH);
analogWrite (speedL, 150);
analogWrite (speedR, 150);
}
void left()
{
digitalWrite (IN1, LOW);
digitalWrite (IN2, LOW);
digitalWrite (IN3, HIGH);
digitalWrite (IN4, LOW);
analogWrite (speedL, 0);
analogWrite (speedR, 150);
}
```

```
void right()
{
digitalWrite (IN1, HIGH);
digitalWrite (IN2, LOW);
digitalWrite (IN3, LOW);
digitalWrite (IN4, LOW);
analogWrite (speedL, 150);
analogWrite (speedR, 0);
}
void stopp()
{
digitalWrite (IN1, LOW);
digitalWrite (IN2, LOW);
digitalWrite (IN3, LOW);
digitalWrite (IN4, LOW);
analogWrite (speedL, 0);
analogWrite (speedR, 150);
}

void loop() {
if (Serial.available()>0){
  Reading=Serial.read();
  switch(Reading){
    case 'F': forward();
    break;
    case 'B': backward();
    break;
    case 'R': right();
    break;
    case 'L': left();
    break;
    case 'S': stopp();
    break;
  }
}
}
```