```
//Codice del progetto 4 Semafori con arduino
//prof.ssa Malizia Maria Rosa
int Lane1[ ] = {13,12,11}; // Lane 1 Red, Yellow and Green
int Lane2[ ] = {10,9,8};// Lane 2 Red, Yellow and Green
int Lane3[ ] = {7,6,5};// Lane 3 Red, Yellow and Green
int Lane4[ ] = {4,3,2};// Lane 4 Red, Yellow and Green
void setup()
{
  for (int i = 0; i < 3; i++)
  {
    pinMode(Lane1[i], OUTPUT);
    pinMode(Lane2[i], OUTPUT);
    pinMode(Lane3[i], OUTPUT);
    pinMode(Lane4[i], OUTPUT);
  }
  for (int i = 0; i < 3; i++)
  {
    digitalWrite(Lane1[i], LOW);
    digitalWrite(Lane2[i], LOW);
    digitalWrite(Lane3[i], LOW);
    digitalWrite(Lane4[i], LOW);
  }

}
void loop()
 {
  digitalWrite(Lane1[2], HIGH);
  digitalWrite(Lane3[0], HIGH);
  digitalWrite(Lane4[0], HIGH);
  digitalWrite(Lane2[0], HIGH);
  delay(7000);
  digitalWrite(Lane1[2], LOW);
  digitalWrite(Lane3[0], LOW);
  digitalWrite(Lane1[1], HIGH);
  digitalWrite(Lane3[1], HIGH);
  delay(3000);
  digitalWrite(Lane1[1], LOW);
  digitalWrite(Lane3[1], LOW);
  digitalWrite(Lane1[0], HIGH);
  digitalWrite(Lane3[2], HIGH);
  delay(7000);
  digitalWrite(Lane3[2], LOW);
  digitalWrite(Lane4[0], LOW);
  digitalWrite(Lane3[1], HIGH);
  digitalWrite(Lane4[1], HIGH);
  delay(3000);
  digitalWrite(Lane3[1], LOW);
  digitalWrite(Lane4[1], LOW);
```

```
 digitalWrite(Lane3[0], HIGH);
 digitalWrite(Lane4[2], HIGH);
 delay(7000);
 digitalWrite(Lane4[2], LOW);
 digitalWrite(Lane2[0], LOW);
 digitalWrite(Lane4[1], HIGH);
 digitalWrite(Lane2[1], HIGH);
 delay(3000);
 digitalWrite(Lane4[1], LOW);
 digitalWrite(Lane2[1], LOW);
 digitalWrite(Lane4[0], HIGH);
 digitalWrite(Lane2[2], HIGH);
 delay(7000);
 digitalWrite(Lane1[0], LOW);
 digitalWrite(Lane2[2], LOW);
 digitalWrite(Lane1[1], HIGH);
 digitalWrite(Lane2[1], HIGH);
 delay(3000);
 digitalWrite(Lane2[1], LOW);
 digitalWrite(Lane1[1], LOW);
}
```