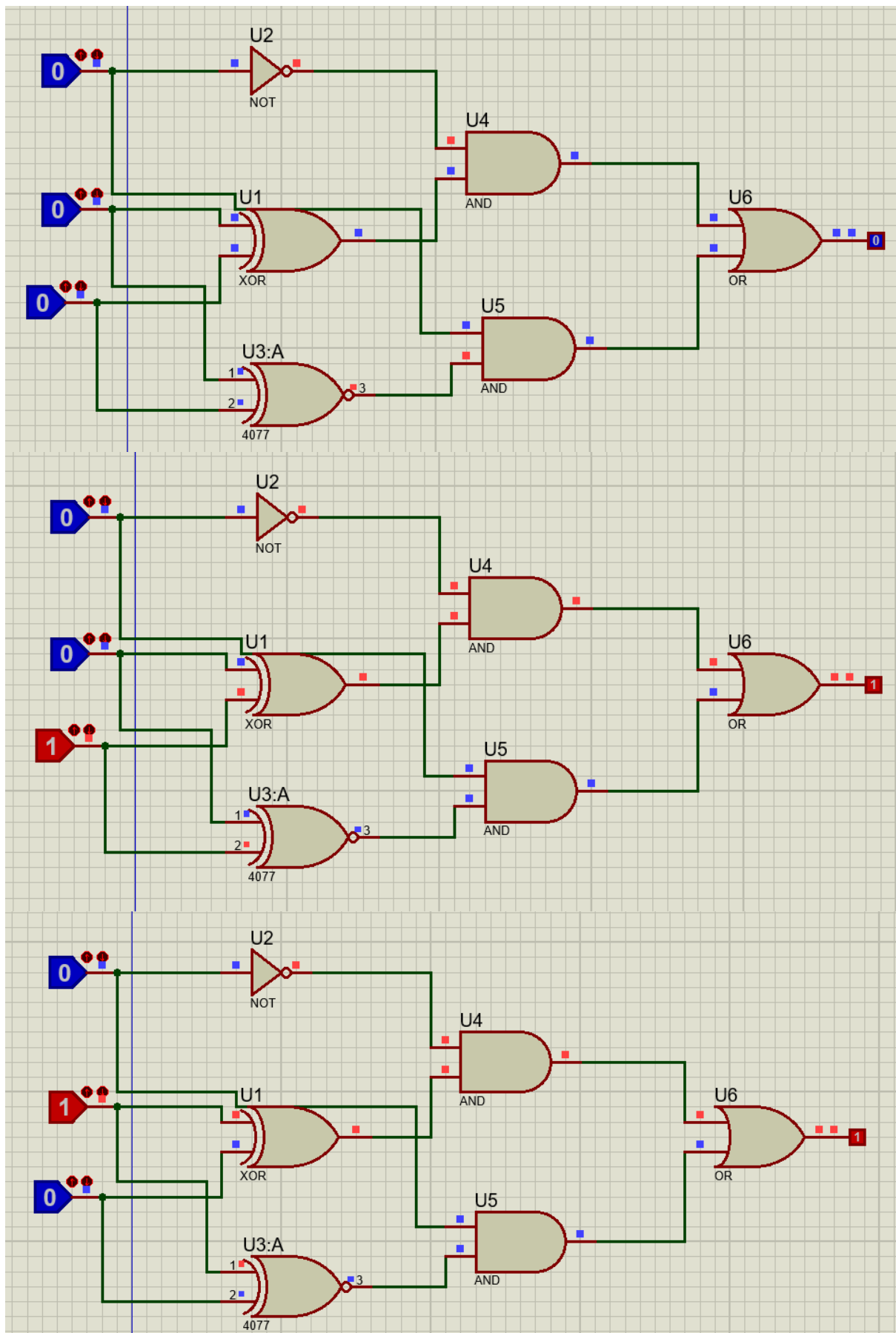
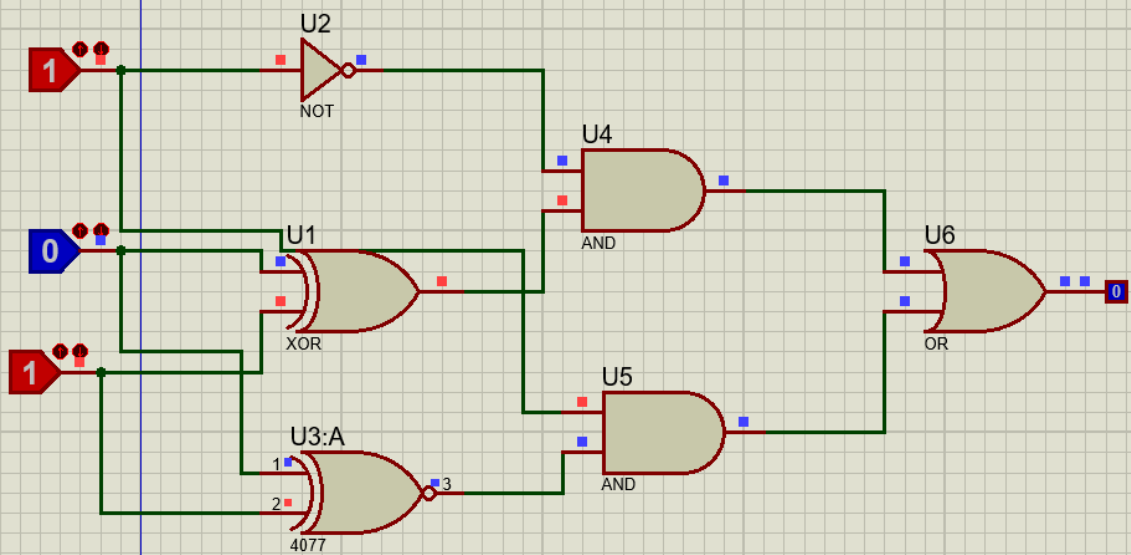
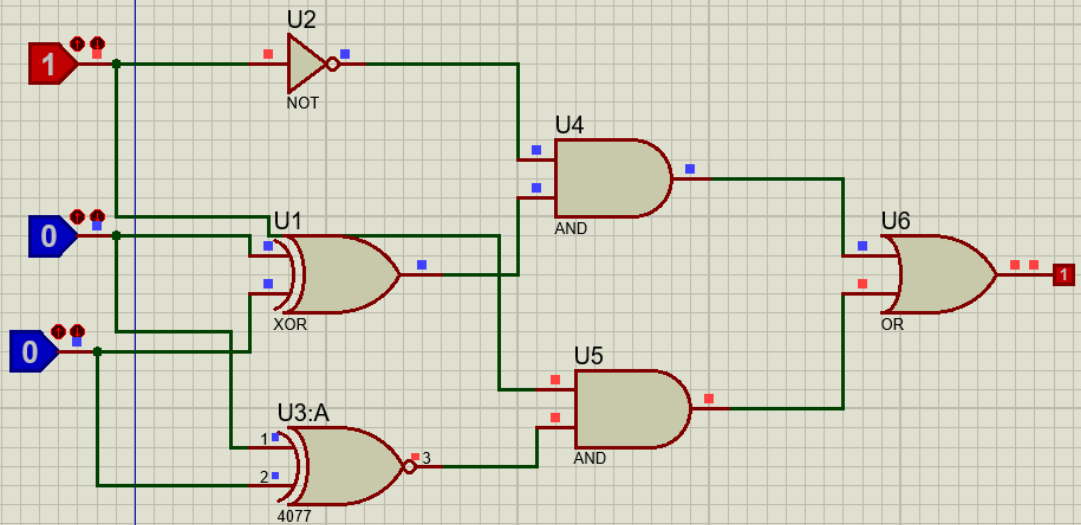
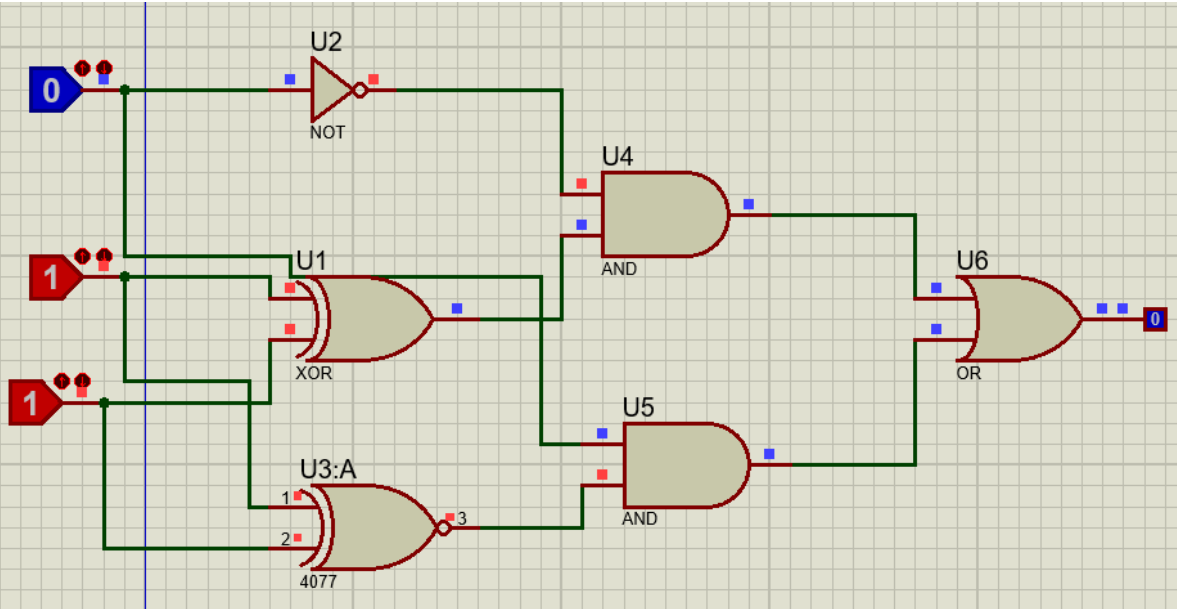
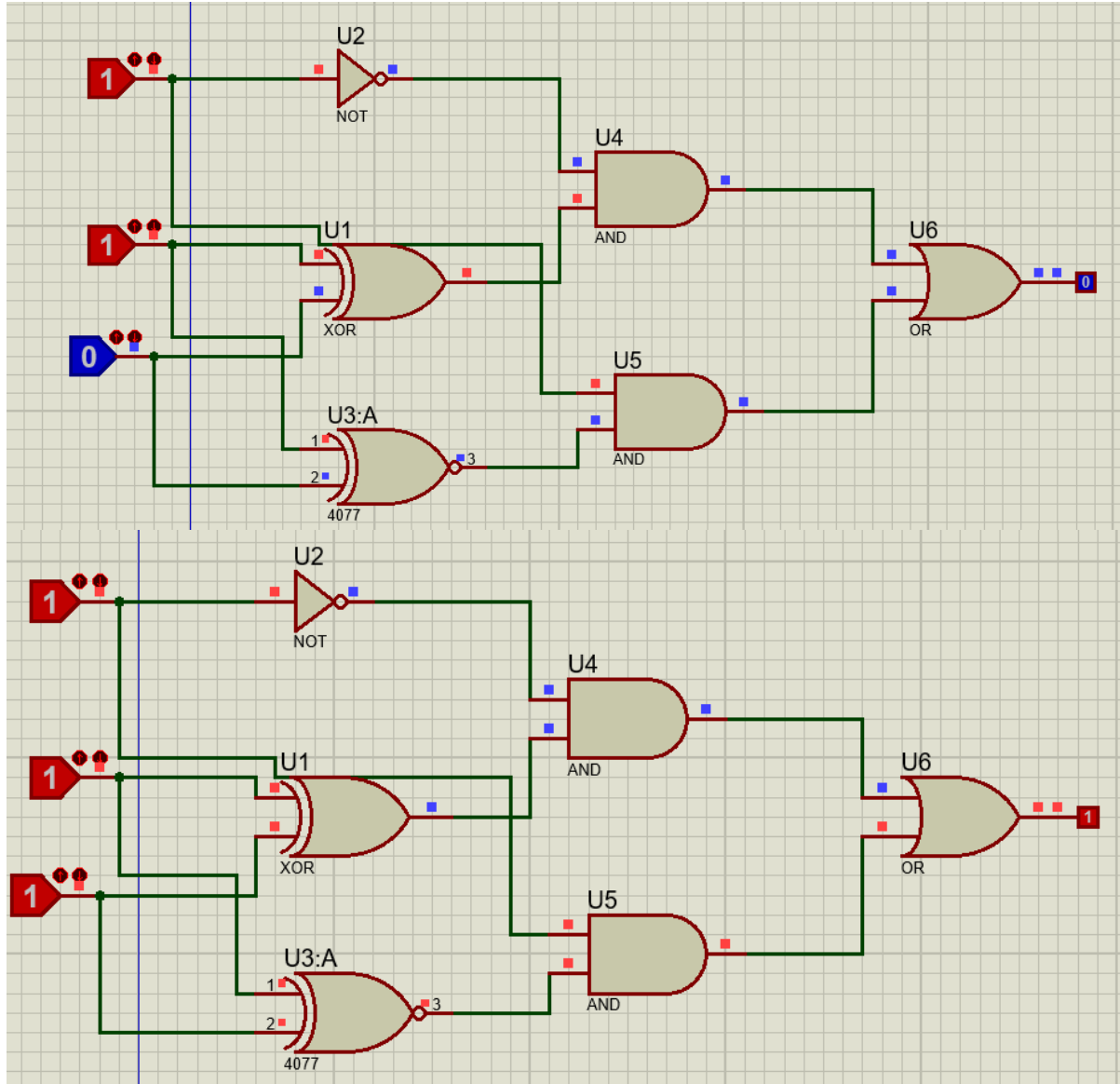


Q1







### Q3)

```
const int lightSensorPin = A0;
```

```
const int ledPin = 9;
```

```
int lightLevel = 0;
```

```
const int lightThreshold = 500;
```

```
void setup() {
```

```
  pinMode(lightSensorPin, INPUT);
```

```
  pinMode(ledPin, OUTPUT);
```

```
  Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
  lightLevel = analogRead(lightSensorPin);
```

```
  Serial.print("Light Level: ");
```

```
Serial.println(lightLevel);
```

```
if (lightLevel < lightThreshold) {
```

```
    digitalWrite(ledPin, HIGH);
```

```
} else {
```

```
    digitalWrite(ledPin, LOW);
```

```
}
```

```
delay(500);
```

```
}
```