

Q1. Which of the following names are valid for a variable.

A. car

B. _car

C. c@r

D. !car

E. 1car

F. 1Car

Q2. The following code is to blink an LED connected to digital pin 2 of the Arduino UNO board. Find the errors in the code and fix them to make it work.

Code:

```
void setup() {  
    pinMode(2, OUTPUT);  
}  
  
void loop() {  
    digitalWrite(2, high); => digitalWrite(2, HIGH);  
    delay(1000);  
    digitalWrite(2, low); => digitalWrite(2, LOW);  
    delay(1000);  
}
```

Q3. The following code is to control an LED using a slide switch. Find the errors and issues in the code and fix them to make it work.

Note: Sometimes logical errors don't throw an error but while executing the code, it will not work as expected.

Code:

```
int led;
led = 6;
int slideSwitch;
Slideswitch = 10;
void setup() {
  pinMode(slideSwitch, INPUT); // switch input pin
  pinMode(led, OUTPUT);        //LED output pin
}

void loop() {
  if (digitalRead(slideSwitch) = HIGH); => if (digitalRead(slideSwitch) == HIGH)
  {
    digitalWrite(led, OUTPUT);
  } else {
    digitalWrite(led, INPUT);
  }
}
```