

Assignment

1. Program to check whether triangle is equilateral, scalene or isosceles

If a, b, c are three sides of a triangle. Then,

- The triangle is equilateral only if $a == b == c$.
- The triangle is isosceles if either $a == b$ or $a == c$ or $b == c$.
- A triangle is called the Scalene Triangle, if none of its sides are equal.

(hint: use if... else if and logical operators)

eg: if($a == b \ \&\& \ b == c$), then the triangle is equilateral.

2. Predict the output of the following code

```
var grade='B';
var result = 0;
switch(grade){
  case 'A':{
    result+=10;
    break;
  }
  case 'B':{
    result+=20;
  }
  case 'C':{
    result+=30;
  }
  default:
    result+=40;
}
console.log(result)|
```

(Try without coding first) ;)

3. program to create calculator using switch case

- Store operands and operators in some variable say num1, op and num2.(use appropriate scoping rule var, let const)
- Switch the value of op i.e. switch(op).
- There are four possible values of op i.e. '+', '-', '*' and '/'.
- For case '+' perform addition and store result in some variable i.e. $result = num1 + num2$.
- Similarly for case '-' perform subtraction and store result in some variable i.e. $result = num1 - num2$.etc
- console the result at the end of the code.