

Java Script conditional statements (Decision Making)

1. Determine the output displayed in the following programs.

- i) let age = 15;
if(age = 18){
alert("You are eligible to vote");
}

- ii) let age = 15;
if(age ==18){
alert("You are eligible to vote");
}else{
alert("You are not-eligible to vote");
}

- iii) let num = 15;
if(num<= 18){
alert("number is less than 20");
}else if(num ==15){
alert("number is equal to 15");
}

- iv) let gpa = 8.5;
if(gpa>= 4){
alert("Grade: D");
}else if(gpa>= 6){
alert("Grade: C");
}elseif(gpa>= 8){
alert("Grade:B ");
}elseif(gpa>= 9){
alert("Grade: A");
}

- v) var a = 5;
var b = 3;
var c = 20;

if (a * b <c){
c =a;
}else{
c = a+b+c;
}

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    alert(c);  
  
vi)  var a = 4;  
  
      if ((a <= 6) && (a < 2 || a < 7 )){  
        alert("Hello!");  
      }
```

2. What is wrong with the following code segments?

- i) if (x >0)||(y >0){
 alert("At least one number is positive\n");
 }
- ii) let age = 15;
 if(age == 18)
 alert("You are eligible to vote");
 else
 alert("You are not-eligible to vote");
- iii) let num = 15;
 if(num<= 18){
 alert("number is less than 20");
 }elseif(num ==15){
 alert("number is equal to 15");
 }
- iv) let x = 15;
 if (x > 20 & x <= 40){
 alert(" x is valid");
 }
- v) let a = 10;
 if (a > 5);
 {
 alert("X is greater than 5");
 }
- vi) let y =20;
 if (y > 15 or y < 30){
 alert(" y is valid");
 }

3. What will be the output of the following programs?

i) var choice = 3;
 switch (choice){

 case 1:
 alert("Cricket");
 break;
 case 2:
 alert("Foot Ball");
 break;
 case 3:
 alert("Tennis");
 break;
 default:
 alert("Error");
 break;
 }

ii) var choice = 3;
 switch (choice){

 case 1:
 alert("Cricket");

 case 2:
 alert("Foot Ball");

 case 3:
 alert("Tennis");

 default:
 alert("Error");
 }

iii) var day = 2;
 switch (day){

 case 1:
 alert("Sun day");
 break;
 case 4/2:
 alert("Mon day");
 break;

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case 3:  
    alert("Tues day");  
    break;  
  
default:  
    alert("Error");  
}  
  
iv)  var day = 1;  
     switch (day -2){  
  
        case 1:  
            alert("Sun day");  
            break;  
        case 4/2:  
            alert("Mon day");  
            break;  
  
        case 3:  
            alert("Tues day");  
            break;  
  
    default:  
        alert("Error");  
    }
```