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Q>

```
int x=10 , y=15 ;  
if(++x < 10 & ++y > 15) {    //11<10(false) & 16>15(true)  
    x++;  
}  
else {  
    y++;//17  
}  
System.out.println(x+"----"+y);
```

predict x and y value by replacting the operators with

|| => x and y value ?

|| -> it is called as "Short circuit OR operator"

second operand evaluation will happen only if the first operand result

is false

x = 12

y = 16

&& => x and y value

&& -> it is called as "Short circuit AND operator"

second operand evaluation will happen only if the first operand result

is true

x = 11

y = 16

| => x and y value

|=> It is called as "Logical OR operator"

both the operands result will be evaluated.

x = 12

y = 16

& => x and y value ?

& -> It is called as "Logical AND operator"

both the operands result will be evaulated

x =11

y =17

Q>

```
int x=10 ;  
if(++x < 10 && ((x/0)>10) ) { //11<10==> if(false)  
    System.out.println("Hello");  
}  
else {  
    System.out.println("Hi");  
}
```

A. Hello

B. Hi

C. Compile Time Error

D. Exception

E. None of the above.

Answer : B

Q>  
 Give  

```
int i=10;//10
int j=20;//30
int k= (j+=i)/5;// k = (j= j+i)/5
                        k= (j=20+10)/5
                        k = (j=30)/5
                        k= 30/5
                        k= 6

System.out.println(i+":"+j+":"+k);
```

- A.10:30:6
  - B.10:22:22
  - C.10:22:20
  - D.10:22:6
- Answer : A

Q>  
 Syntax of if  
 -----  

```
if(boolean){
    stmt-1;
    stmt-2;
}else{
    stmt-3;
    stmt-4;
}
```

```
int x =10;
if(x){//CE: unexpected type required: boolean,found:int
    System.out.println("hello");
}else{
    System.out.println("hiee");
}
```

- A. hello
- B. hiee
- C. CompileTime Error
- D. Some problem by jvm at the execution
- E. None of the above

Answer: C

Q>  

```
int x =10;
if(x=20){//CE: unexpected type required: boolean,found:int
    System.out.println("hello");
}else{
    System.out.println("hiee");
}
```

- A. hello
- B. hiee
- C. CompileTime Error
- D. Some problem by jvm at the execution
- E. None of the above

Answer: C

Q>

```

int x =10;
if(x==20){//operator used is Equality operator    ==, !=    output is boolean
    System.out.println("hello");
}else{
    System.out.println("hiee");
}

```

- A. hello
- B. hiee
- C. CompileTime Error
- D. Some problem by jvm at the execution
- E. None of the above

Answer: B

```

Q>
boolean b= false;
if(b=true){//assignment operator is evaluted on boolean data type, JVM if(true)
    System.out.println("hello");
}else{
    System.out.println("hiee");
}

```

- A. hello
- B. hiee
- C. CompileTime Error
- D. Some problem by jvm at the execution
- E. None of the above

Answer : A

```

Q>
boolean b= false;
if(b==true){//Equality operator result is boolean type , JVM if(false == true) ----
> if(false)
    System.out.println("hello");
}else{
    System.out.println("hiee");
}

```

- A. hello
- B. hiee
- C. CompileTime Error
- D. Some problem by jvm at the execution
- E. None of the above

Answer: B

```

Q>
if(boolean)
    stmt-1;
Note: if there is only statement which needs to be a part of if, then {} is optional.
if(true)
    System.out.println("hello");

```

- A. Compile Time Error
- B. hello
- C. Some problem by jvm at the execution
- D. None of the above

Answer : B

Q>  

```
public class Test{
    public static void main(String args[]){
        if(true);
    }
}
```

- A. Compile Time Error
- B. hello
- C. Some problem by jvm at the execution
- D. No Output

Answer : D(becoz ; is also valid java statement)

Q>  
 Note: if there is only statement which needs to be a part of if, then {} is optional, but that statement should not be a declarative statement.

```
public class Test{
    public static void main(String args[]){
        if(true)
            int x=10; //CE: declaration not allowed here
    }
}
```

- A. Compile Time Error
- B. hello
- C. Some problem by jvm at the execution
- D. No Output

Answer: A

Q>  

```
public class Test{
    public static void main(String args[]){
        if(true) {
            int x=10; //valid for compiler becoz of {}
        }
    }
}
```

- A. Compile Time Error
- B. hello
- C. Some problem by jvm at the execution
- D. No Output

Answer: D

Q>  

```
public class Test{
    public static void main(String args[]){
        if(true)
            System.out.println("hello");//Dependent of if statement
            System.out.println("hiee");//Independent of if statement
    }
}
```

How many statements are independent of if?

- A. 0-stmt
- B. 1-stmt
- C. 2-stmt

D. 3-stmt

Answer: B