# Conditional Execution Exercises and Solutions

**Software Development 1 (F27SA)** 

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Week 2, lecture 2

```
public class IfExercise {
   public static void main(String[] args) {
     double size = 10;
     boolean yellow = false, red = false;
     boolean square = false;
     if(<add code here>)
        System.out.println("Aubergine!");
   }
}
```

```
public class IfExercise {
   public static void main(String[] args) {
      double size = 10;
      boolean yellow = false, red = false;
      boolean square = false;
      if(size>=5 && size<=15 && !(yellow || red)
          && !square)
          System.out.println("Aubergine!");
    }
}</pre>
```

```
public class IfExercise {
   public static void main(String[] args) {
      double size = 10;
      boolean yellow = false, red = false;
      boolean square = false;
      if(!(size<5 || size>15) && !yellow && !red
         && !square)
        System.out.println("Aubergine!");
   }
}
```

```
boolean a = true;
boolean b = false;
System.out.println(a || b ? "Yes!" : "No!");
```

- A. Yes!
- B. No!
- C. No output is produced
- D. A compiler error is generated

```
boolean a = true;
boolean b = false;
System.out.println(a || b ? "Yes!" : "No!");
```

- A. Yes!
- B. No!
- C. No output is produced
- D. A compiler error is generated

```
int b = 10;
b /= 2;
if(b = 5)
    System.out.println("Yes!");
else
    System.out.println("No!");

A. Yes!
B. No!
```

- C. No output is produced
- D. A compiler error is generated

```
int b = 10;
               Assignment (=) rather than equals (==)
b /= 2;
                leads to a type mismatch compiler error
if(b = 5)
   System.out.println("Yes!");
else
   System.out.println("No!");
```

- A. Yes!
- B. No!
- C. No output is produced
- D. A compiler error is generated

What is the output of this program fragment?

```
int b = 10;
b /= 2;
if(b == 5)
    System.out.println("Yes!");
    System.out.println("Yes!");
else
    System.out.println("No!");
A. Yes! Yes!
```

C. No output is produced

B. No!

D. A compiler error is generated

#### What is the output of this program fragment?

```
int b = 10;
b /= 2;
if(b == 5)
    System.out.println("Yes!");
System.out.println("Yes!");
else
    System.out.println("No!");
```

There is no {...}, so the compiler reads it like this, finds an else with no if, and generates an error

- A. Yes! Yes!
- B. No!
- C. No output is produced
- D. A compiler error is generated

```
int b = 1;
switch(b) {
   case 1: System.out.println("Yes!");
   case 2: System.out.println("No!");
}

A. Yes!
B. No!
```

- C. A compiler error is generated
- D. None of the above

```
int b = 1;
switch(b) {
   case 1: System.out.println("Yes!");
   case 2: System.out.println("No!");

   Missing breaks after each case
   cause it to output "Yes! No!"

A. Yes!

B. No!
```

- C. A compiler error is generated
- D. None of the above