What will happen when you attempt to compile and run the following code?

a)
```java
int k=10;
switch(k){
    case 10:
        System.out.println("ten");
    case 20:
        System.out.println("twenty");
        break;
    default:
        System.out.println("This is the default output");
}
```

b)
```java
int k=10;
switch(k){
    default:
        System.out.println("This is the default output");
        break;
    case 10:
        System.out.println("ten");
        break;
    case 20:
        System.out.println("twenty");
        break;
}
```

c)
```java
public class MyIf{
    boolean b;
    public static void main(String argv[]){
        if(b){
            System.out.println("The value of b was true");
        }
        else{
            System.out.println("The value of b was false");
        }
    }
}
```
import java.util.*;

public class ClassifyAge {
    public static void main (String args []) {
        Scanner keyboard = new Scanner(System.in);

        System.out.println("Welcome to Age Classification Program.");
        System.out.print("Enter age : ");
        int age = keyboard.nextInt();

        if (age == 0) // for a person born, but not yet having reached first birthday
        {
            System.out.println("Person aged " + age + " is a baby.");
        } else if age <= 12 // for person between 1 and 12
        {
            System.out.println("Person aged " + age + " is a child.");
        } else if (12 < age <= 19) // for person between 13 and 19
        {
            System.out.println("Person aged " + age + " is a teenager.");
        } else if (19 > age && age <= 65); // for person between 20 and 65
        {
            System.out.println("Person aged " + age + " is an adult.");
        } else if (age > 65 && age <= 120) // for person older than 65
        {
            System.out.println("Person aged " + age + " is a senior citizen.");
        } else // for unknown age
        {
            System.out.println("Unknown age classification.");
        }
        System.out.println();
        System.out.println("Done with Age Classification Program.");
    }
}