

Practice questions

- What is true && false? *false
- Assume x is an integer. Write a simple expression that returns true if x is an even number or false if x is an odd number. * (x%2) == 0

- What will be the output if score is 98 for the following code?

```
if (score >= 60.0)
    System.out.println("D");
else if (score >= 70.0)
    System.out.println("C");
else if (score >= 80.0)
    System.out.println("B");
else if (score >= 90.0)
    System.out.println("A");
else
    System.out.println("F");
```

*D

Explanation: Since score is greater than 60, it will not go to all the else statement. So only D will be printed out. To correct the code, you need to change the order of the conditions by checking >= 90 first.

- How do you generate a random integer i such that $10 \leq \dots < 20$?
* i = 10+(int)(Math.random()*10)

- Write the following code using conditional operator.

```
if (count % 10 == 0)
    n = 1;
else
    n = 2;
*n = (count % 10 == 0)?1:2
```

- Assuming that x is 1, show the result of the following Boolean expressions.

| | |
|----------------------|---------|
| (true) && (x > 0) | * true |
| !(x > 0) && (x > 0) | * false |
| (x != 0) (x == 0) | * true |