Started on	Saturday, March 18, 2023, 12:32 PM
State	Finished
Completed on	Saturday, March 18, 2023, 1:27 PM
Time taken	55 mins 7 secs
Points	48.00/50.00
Grade	**2.88** out of 3.00 (**96**%)

Drag the correct answers into the following code that will set the value of *letterGrade* to the appropriate letter depending on the value of *numericGrade* based on the scale below:

Hints:

    - We use a series of *if / else* conditional statements to solve this problem.

    - Some of the choices will **not** be used, and **two** are used more than once.

Scale

letterGrade	numericGrade
A	90 and above
B	80 to 89
C	70 to 79
D	60 to 69
F	59 or lower

```java
// Initialize the two variables.
int numericGrade ✔ = 98;
char letterGrade ✔ = ' ';

//  Set the letterGrade variable, based on the numericGrade
if ✔ ( numericGrade ✔ >= 90) {
    letterGrade ✔ = 'A' ✔ ;
} else if ( numericGrade ✔ >= 80 ✔ ) {
    letterGrade ✔ = 'B' ✔ ;
} else if ✔ ( numericGrade ✔ >= 70) {
    letterGrade ✔ = 'C' ✔ ;
} else if ( numericGrade ✔ >= 60 ✔ ) {
    letterGrade ✔ = 'D' ✔ ;
} else ✔ {
    letterGrade ✔ = 'F' ✔ ;
}
System.out.println("The letter Grade for a "
        + numericGrade + " is a " + letterGrade + ".");
```

70		letterGrade

numericGrade		90

Question 2

Correct

5.00 points out of 5.00

true && true evaluates to [true] ✔ .

true && false evaluates to [false] ✔ .

false && false evaluates to [false] ✔ .

true || true evaluates to [true] ✔ .

true || false evaluates to [true] ✔ .

false || false evaluates to [false] ✔ .

[true] [false]

Question 3

Partially correct

3.00 points out of 5.00

Drag the pieces of code to make the final output to the console be:
Definitely going to sleep in!

```java
public static void main(String[] args) {
  int day = 6;
  int month = 4;
  boolean isSummer= month  >= 6  ✔   ||  ✖  month <=   8   ✔ ;
  boolean isWeekday = day   <   ✔  6;
  if (isSummer  &&  ✖  !isWeekday) {
    System.out.println("Definitely going to sleep in!");
  } else {
    System.out.println("Probably need to wake up at a decent time.");
  }
}
```

Question 4

Correct

5.00 points out of 5.00

Match the types of loops with the description that best describes each loop.

Will always iterate at least once because the condition is checked after each iteration.

| Do While Loop |

✔

Has three sections in the declaration within the parentheses - the initialization, the condition, and the post-iteration.

| For Loop |

✔

Defines a boolean expression that, if evaluates to true, will cause the loop to perform an iteration.

| While Loop |

✔

Question 5

Correct

5.00 points out of 5.00

A for loop is typically used when you know how many iterations you want to perform.

Select one:

◉ True ✔

○ False

Drag the correct answers (Java code) into the following **for loop** that iterates 100 times, from 0 to 99, and prints out **every odd number** to the console.

For example, the console output should start as follows:

1

3

5

etc.

Note: *Some of the choices will be used more than once.*

```java
for (int index    =  ✔    0  ✔ ; index   <=  ✔    99  ✔ ;  index ✔ ++) {
    if (! ( index ✔    %  ✔    2  ✔    ==  ✔    0  ✔ )) {
        System.out.println( index ✔ );
    }
}
```

    0   index

What does the following code print to the console?

```java
public static void main(String[] args) {
  double moneyInWallet = 4.50;
  double costOfMilk = 1.99;
  if (moneyInWallet >= costOfMilk * 2) {
    System.out.println("Let's buy two gallons.");
  } else if (moneyInWallet >= costOfMilk) {
    System.out.println("Let's buy one gallon.");
  } else {
    System.out.println("Way too expensive!");
  }
}
```

Select one:

○ a. Let's buy two gallons. ✔

○ b. Way too expensive!

○ c. Let's buy one gallon.

○ d. Does not compile.

What will the following code print?

```
public static void main(String[] args) {
  String name = "Tommy";
  int age = 52;
  if (name == "Tommy") {
    System.out.println("Hi, Tommy!");
  } else if (age == 52) {
    System.out.println("52 years old.");
  }
  System.out.println("Out of conditional.");
}
```

Select one:

○ a. Hi, Tommy!

○ b. Hi, Tommy!

     52 years old.

     Out of conditional.

○ c. Throws an exception.

◉ d. Hi, Tommy!   ✔

     Out of conditional.

○ e. 52 years old.

     Out of conditional.

Drag the correct answers (Java code) into the following **for loop** to allow the result to print 0 through 9 to the console:

for (int index [=] ✔ [0] ✔ ; index [<=] ✔ [9] ✔ ; [index++] ✔) {

    System.out.println([index] ✔);

}

Question 10

Correct

5.00 points out of 5.00

What is the result of the following loop?

for (int i = 0; i < 10; i--) {

  System.out.println(i);

}

Select one:

- ○ a. It will print 0 through 10.
- ○ b. It will not compile.
- ○ c. It will print 0 through 9.
- ◉ d. It is an infinite loop and will print 0, -1, -2, -3......✔

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