Question 1 Not yet answered Marked out of 2.00 Flag question Edit question

Method called calDiscount() calculates and returns the discount given to a customer by an optical service center called 'Good vision'.

The center decides to offer a discount of 15% from the bill amount for all the purchases in new year season.

The bill amount will be passed to the calDiscount() method as parameter.

Select a suitable **method implementation** for calDiscount() method.

Select one:

a.
```
public static double calDiscount(double amount)
{
        double discount = amount * 15 / 100;
        System.out.println( discount );
}
```

b.
```
public static void calDiscount()
{
        double discount = amount * 15 / 100;
        System.out.println( discount );
}
```

c.
```
public static double calDiscount()
{
        return discount;
}
```

d.
```
public static void calDiscount(double amount)
{
        double discount = amount * 15 / 100;
        System.out.println( discount );
}
```

e.
```
public static double calDiscount(double amount)
{
        return amount * 15 / 100;
}
```

Question 2 Not yet answered Marked out of 2.00 Flag question Edit question

This method will return displacement(s) of an object when its initial velocity (u), acceleration (a), and time (t) traveled are passed as parameters.

```
public static double calculate(double u, double a, double t)
{
        double s = u * t + (a * t * t) / 2;
        return s;
}
```

Sample data

Displacement (s) / m	Initial velocity (u) / ms^{-1}	Acceleration (a) / ms^{-2}	Time (t) / s
750.0	25.0	10.0	10.0

Select the **correct** assert statement to test above method. The assert statement should be written using sample data.

Select one:

a. assert calculate(25.0 , 10.0 , 10.0) - 750.0 < 0.1 ;

b. assert Math.abs(calculate(25.0 , 10.0 , 10.0)) == 750.0 ;

c. assert Math.abs(calculate(25.0 , 10.0 , 10.0) - 750.0) ;

d. assert Math.abs(calculate(25.0 , 10.0 , 10.0) - 750.0) < 0.1 ;

e. assert calculate(25.0 , 10.0 , 10.0) == 750.0 ;

Question 3 Not yet answered Marked out of 2.00 Flag question Edit question

displayDetails() method displays the item No, price and the amount to be paid when they are passed to the method. This the implementation of **displayDetails()** method.

```
public static void displayDetails(int itemNo, float price, float amountToBePaid)
{
        System.out.println("Discount Details");
        System.out.println("Item No\tPrice\tAmount");
        System.out.println(itemNo + "\t" + price + "\t" + amountToBePaid);
}
```

Select the correct method invoke when the following arguments are passed.
amountToBePaid = 1000.0, price = 100.0, itemNo = 1

Select one:

a. displayDetails(1, 100.0, 1000.0);

b. void displayDetails(1000.0, 100.0, 1);

c. displayDetails(1000.0, 100.0, 1);

d. void displayDetails(1, 100.0, 1000.0);

e. float finalAmount = displayDetails(1, 100.0, 1000.0);

Question 4 Not yet answered Marked out of 2.00 Flag question Edit question

Which of the following statements is true about nested loops?

Select one:

a. The outer loop must always execute before the inner loop.

b. Nested loops can only be used with for loops.

c. The order of execution of inner loop and outer loop depends on the specific problem being solved.

d. Nested loops cannot be used with while loops.

e. The inner loop must always execute before the outer loop.

Question 5 Not yet answered Marked out of 2.00 Flag question Edit question

What will be the output of this code segment?

```
int[] numbers = {1, 2, 3, 4, 5};
int sum = 0;
for (int i = 0; i < numbers.length; i++) {
        sum += numbers[numbers.length - i - 1];
}
System.out.println(sum);
```

Select one:

a. 0

b. 5

c. 10

d. 25

e. 15

Question 6 Not yet answered Marked out of 2.00 Flag question Edit question

What is the output of the following code segment, when the user enters **num** variable value as 2

```
switch(num)
{
  case 1 : System.out.println( "one" );
      break ;
  case 2 : System.out.println( "two" ) ;
  case 3 : System.out.println( "three" );
      break ;
  case 4 : System.out.println( "four" ) ;
      break ;
  default : System.out.println( "error" ) ;
}
```

Select one:

a. two
three

b. two
three

c. Error

d. one

e. one
two
three

Question 7 Not yet answered Marked out of 2.00 Flag question Edit question

Consider the following statement:

```
int i = 0, j = 100;
```

Which of the following statement is true?

Select one:

a. (i < 1) && (j <= 10)

b. (i < 0) && (j <= 100)

c. (j > 0) || (i > 50)

d. !(i < 1)

e. None of the above

Question 8 Not yet answered Marked out of 2.00 Flag question Edit question

Select correct mathematical expression to calculate the following.

$$x = \frac{-b \mp \sqrt{b^2 - 4ac}}{2a}$$

Select one:

a.
```
x1 = ( -b - Math.sqrt( Math.pow(b, 2) - 4 * a * c ) / 2 * a ;
x2 = ( -b + Math.sqrt( Math.pow(b, 2) - 4 * a * c ) / 2 * a ;
```

b.
```
x1 = ( -b - Math.sqrt( Math.pow(b, 2) - 4 * a * c ) ) / 2 * a ;
x2 = ( -b + Math.sqrt( Math.pow(b, 2) - 4 * a * c ) ) / 2 * a ;
```

c.
```
x1 = ( -b - Math.sqrt( Math.pow(2, b) - 4 * a * c ) ) / 2 * a ;
x2 = ( -b + Math.sqrt( Math.pow(2, b) - 4 * a * c ) ) / 2 * a ;
```

d.
```
x1 = ( -b - Math.pow( Math.sqrt(b, 2) - 4 * a * c ) ) / 2 * a ;
x2 = ( -b + Math.pow( Math.sqrt(b, 2) - 4 * a * c ) ) / 2 * a ;
```

e.
```
x1 = ( -b - sqrt( pow(b, 2) - 4 * a * c ) ) / 2 * a ;
x2 = ( -b + sqrt( pow(b, 2) - 4 * a * c ) ) / 2 * a ;
```

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Calendar

October 2024

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14	15	16	17	18	19	20
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