



98-388^{Q&As}

Introduction to Programming Using Java

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QUESTION 1

HOTSPOT

You need to evaluate the following Java program. Line numbers are included for reference only.

```
01 public static void main(String[] args) {  
02     double pi = Math.PI; //3.141593  
03     System.out.format("Pi is %.3f%n", pi);  
04     System.out.format("Pi is %.0f%n", pi);  
05     System.out.format("Pi is %09f%n", pi);  
06 }
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

What is the output of line 03?

	▼
Pi is 3.141593	
Pi is 3.142	
Pi is 3.14	
Pi is 3.1	

What is the output of line 04?

	▼
Pi is 3 141593	
Pi is 0003.141593	
Pi is 3	
Pi is 3.	

What is the output of line 05?

	▼
Pi is 3.141593	
Pi is 3.1415930	
Pi is 03.141593	
Pi is 0000000003.141593	

Correct Answer:



Answer Area

What is the output of line 03?

<input type="text"/>
Pi is 3.141593
Pi is 3.142
Pi is 3.14
Pi is 3.1

What is the output of line 04?

<input type="text"/>
Pi is 3 141593
Pi is 0003.141593
Pi is 3
Pi is 3.

What is the output of line 05?

<input type="text"/>
Pi is 3.141593
Pi is 3.1415930
Pi is 03.141593
Pi is 0000000003.141593

References: <https://docs.oracle.com/javase/tutorial/java/data/numberformat.html>

QUESTION 2

You need to analyze the following code segment. Line numbers are included for reference only.

```
01 public void printInt()  
02 {  
03     if (true) {  
04         int num = 1;  
05         if (num > 0) {  
06             num++;  
07         }  
08     }  
09     int num = 1;  
10     addOne(num);  
11     num = num - 1;  
12     System.out.println(num);  
13 }  
14  
15 public void addOne(int num)  
16 {  
17     num = num + 1;  
18 }
```

What is the output of line 12 when you run printInt()?

- A. 0
- B. 1



C. 2

D. 3

Correct Answer: A

QUESTION 3

DRAG DROP

You need to evaluate the following Java program. Line numbers are included for reference only.

```
01 public class JavaProgram1
02 {
03     int x = 25;
04
05     public static void main(String[] args)
06     {
07         JavaProgram1 app = new JavaProgram1();
08         {
09             int x = 5;
10         }
11         {
12             int x = 10;
13         }
14         int x = 100;
15         System.out.println(x);
16         System.out.println(app.x);
17     }
18     public JavaProgram1()
19     {
20         int x = 1;
21         System.out.println(x);
22     }
23 }
```

Which three values will be displayed in sequence? To answer, move the appropriate values from the list of values to the answer area and arrange them in the correct order. NOTE: Each correct selection is worth one point.

Select and Place:

Values

1
5
10
25
100

Answer Area



Correct Answer:



Values

5
10

Answer Area

1
100
25

**QUESTION 4**

You have the following code segment. Line numbers are included for reference only.

```
01 public static void main(String[] args)
02 {
03     double number = 27;
04     number %= -3d;
05     number += 10f;
06     number *= -4;
07     System.out.println(number);
08 }
```

What is the output of line 07?

- A. -44
- B. -40.0
- C. 40.0
- D. 44.0

Correct Answer: B

QUESTION 5**HOTSPOT**

You are writing a Java class named SavingsAccount. The class must meet the following requirements:

Inherit from an existing class named Account

Include a constructor that uses the base class constructor to initialize the starting balance

Include a substitute toString() method How should you complete the code? To answer, select the appropriate code segments in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

```
public class SavingsAccount  Account {  
    :  
    extends  
    inherits  
    implements  
  
    double rate = 0.02;  
  
    SavingsAccount(double startingBalance) {  
         (startingBalance);  
        Account  
        base  
        constructor  
        super  
    }  
  
       
    @Implements  
    @Inject  
    @Overload  
    @Override  
  
    public String toString() {
```

Correct Answer:



Answer Area

```
public class SavingsAccount 

|            |   |
|------------|---|
|            | ▼ |
| :          |   |
| extends    |   |
| inherits   |   |
| implements |   |

 Account {  
  
    double rate = 0.02;  
  
    SavingsAccount(double startingBalance) {  


|             |   |
|-------------|---|
|             | ▼ |
| Account     |   |
| base        |   |
| constructor |   |
| super       |   |

 (startingBalance);  
    }  
  


|             |   |
|-------------|---|
|             | ▼ |
| @Implements |   |
| @Inject     |   |
| @Overload   |   |
| @Override   |   |

  
    public String toString() {
```

References: https://www.tutorialspoint.com/java/java_inheritance.htm

QUESTION 6

HOTSPOT

You need to evaluate the following code. Line numbers are included for reference only.



```
01 public static int fee(char model) {
02     int price = 0;
03     switch (model) {
04         case 'A':
05             price = 50;
06             break;
07         case 'T':
08             price = 20;
09         case 'C':
10             price = 5;
11             break;
12         default:
13             price = 100;
14             break;
15     }
16     return price;
17 }
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

What is the return value when `model` has a value of 'A'?

	▼
5	
20	
50	
100	

What is the return value when `model` has a value of 'T'?

	▼
5	
20	
50	
100	

What is the return value when `model` has a value of 'c'?

	▼
5	
20	
50	
100	

What is the return value when `model` has any other value?

	▼
5	
20	
50	
100	

Correct Answer:



Answer Area

What is the return value when `mode1` has a value of 'A'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'T'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'c'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has any other value?

	▼
5	
20	
50	
100	

QUESTION 7

HOTSPOT

You work on a team that develops e-commerce applications. A member of the team creates a class named `DB` that connects to a database. The class contains a method named `query`.

You need to initiate the `DB` class and invoke the `query` method.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

DB db = ;

DB()
new DB
new DB()

;

db.query()
DB.query
query()

Correct Answer:

Answer Area

DB db = ;

DB()
new DB
new DB()

;

db.query()
DB.query
query()

References: <https://docs.oracle.com/javase/8/docs/api/java/lang/reflect/Method.html#invoke-java.lang.Object-java.lang.Object...>

QUESTION 8

HOTSPOT



You write the following Java program for Munson's Pickles and Preserves Farm. Line numbers are included for reference only.

```
01 class Pickle {
02     boolean isPreserved = false;
03     private boolean isCreated = false;
04
05     void preserve() {
06         isPreserved = true;
07     }
08
09     public static void main(String[] args)
10     {
11         Pickle pickle = new pickle();
12         isCreated = true;
13         pickle.preserve;
14     }
15 }
```

You encounter error messages when you attempt to compile the program.

You need to ensure the program compiles successfully.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

```
class Pickle {
    boolean isPreserved = false;
    private boolean isCreated = false;

    void preserve() {
        isPreserved = true;
    }

    public static void main(String[] args)
    {
        

|                               |   |
|-------------------------------|---|
|                               | ▼ |
| Pickle pickle = new pickle(); |   |
| Pickle pickle = new Pickle(); |   |
| pickle Pickle = new Pickle(); |   |
| pickle Pickle = new pickle(); |   |



|                          |   |
|--------------------------|---|
|                          | ▼ |
| isCreated = true;        |   |
| Pickle.isCreated = true; |   |
| pickle.isCreated = true; |   |



|                    |   |
|--------------------|---|
|                    | ▼ |
| pickle.preserve;   |   |
| pickle.preserve(); |   |
| Pickle.preserve;   |   |
| Pickle.preserve(); |   |


    }
}
```

Correct Answer:



Answer Area

```
class Pickle {
    boolean isPreserved = false;
    private boolean isCreated = false;

    void preserve() {
        isPreserved = true;
    }

    public static void main(String[] args)
    {
        
        Pickle pickle = new pickle();
        Pickle pickle = new Pickle();
        pickle Pickle = new Pickle();
        pickle Pickle = new pickle();

        
        isCreated = true;
        Pickle.isCreated = true;
        pickle.isCreated = true;

        
        pickle.preserve;
        pickle.preserve();
        Pickle.preserve;
        Pickle.preserve();

    }
}
```

QUESTION 9

HOTSPOT

You are developing a Java program to play Tic-Tac-Toe. You define the following array to store the state of the board: Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code. NOTE: Each correct selection is worth one point.



```
char[][] grid = {  
    {'-', '-', 'X'},  
    {'-', '-', '-'},  
    {'-', 'O', '-'}  
};
```

Hot Area:

Answer Area

Which array element contains an "x"?

	▼
grid[0][2]	
grid[1][3]	
grid[2][0]	
grid[3][1]	

Which array element contains an "o"?

	▼
grid[1][2]	
grid[2][1]	
grid[2][3]	
grid[3][2]	

Correct Answer:

Answer Area

Which array element contains an "x"?

	▼
grid[0][2]	
grid[1][3]	
grid[2][0]	
grid[3][1]	

Which array element contains an "o"?

	▼
grid[1][2]	
grid[2][1]	
grid[2][3]	
grid[3][2]	

QUESTION 10

HOTSPOT



You have the following code segment. Line numbers are included for reference only.

```

01 public class Customer
02 {
03     private int id = 3;
04     public static void main(String[] args)
05     {
06         Customer customer = new Customer();
07         id = 5;
08         showId();
09     }
10
11     protected void showId()
12     {
13         System.out.println(id);
14     }
15 }

```

The code does not compile.

For each of the following statements, select Yes if the action is required to resolve the compilation error. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
Change the access modifier of the variable <code>id</code> to <code>public</code> .	<input type="checkbox"/>	<input type="checkbox"/>
Change the access modifier of the <code>showId</code> method to <code>public</code> .	<input type="checkbox"/>	<input type="checkbox"/>
On lines 07 and 08, add the prefix <code>customer.</code> to <code>id</code> and <code>showId()</code> .	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Answer Area

	Yes	No
Change the access modifier of the variable <code>id</code> to <code>public</code> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Change the access modifier of the <code>showId</code> method to <code>public</code> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
On lines 07 and 08, add the prefix <code>customer.</code> to <code>id</code> and <code>showId()</code> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>

References: <https://docs.oracle.com/javase/tutorial/java/javaOO/accesscontrol.html>