## Class-VIII-Chapter 8 - Introduction to Java & Blue J

# Answer the following questions:

#### 1. What is a class?

#### Answer:

A class is collection of object that make a useful product or program.

## 2. What is meant by object in Java?

#### Answer:

An object is a small attribute or unit or element or part of entire world that having its own characteristic, behavior, status and color etc.

### 3. Explain any three features of the Java Programming Language.

#### Answer:

Characteristic of the Java Programming Language:

- Java is a simple language.
- Java is a platform independent language.
- Java is a robust language.
- Java is a distributed language.
- Java support multithreaded programming language.

## 4. What do you mean by the term Polymorphism?

#### Answer:

Polymorphism means "many forms", and it occurs when we have many classes that are related to each other by inheritance.

5. Explain the structure of the Java program.

## **Answer:**

```
public class Hello
{
   public static void main(String[] args)
   {
      System.out.println("Hello Java");
   }
}
```

CLASS-VIII-COMPUTER Page 1

## Class-VIII-Chapter 8 - Introduction to Java & Blue J

## **Explanation:**

public class Hello	<ul> <li>This creates a class called Hello.</li> <li>All class names must start with a capital letter.</li> <li>The public word means that it is accessible from any other classes.</li> </ul>					
/* Comments */	The compiler ignores comment block. Comment can be used anywhere in the program add info about the program or code block, which will be helpful for developers to understand the existing code in the future easily.					
Braces	Two curly brackets {} are used to group all the commands, so it is known that the commands belong to that class or method.					
public static void main	<ul> <li>When the main method is declared public, it means that it can also be used by code outside of its class, due to which the main method is declared public.</li> <li>The word static used when we want to access a method without creating its object, as we call the main method, before creating any class objects.</li> <li>The word void indicates that a method does not return a value. main () is declared as void because it does not return a value.</li> <li>main is a method; this is a starting point of a Java program.</li> </ul>					
String[] args	It is an array where each element of it is a string, which has been named as "args". If you Java program is run through the console, you can pass the input parameter, and main() method takes it as input.					
System.out.println();	This statement is used to print text on the screen as output, where <b>the system</b> is a predefined class, and <b>out</b> is an object of the Print Writer class defined in the system. The method <b>println</b> prints the text on the screen with a new line. You can also use <b>print</b> () method instead of println () method. All Java statement ends with a semicolon.					



Multiple Choice Questions

1. What does OOP mean?

- (a) Object Oriented Programming
- (b) Object Oriented Procedure
- (c) Object Origin Program



CLASS-VIII-COMPUTER Page 2

# Class-VIII-Chapter 8 - Introduction to Java & Blue J

		And in case of the last of the							
	0	Which among the fol	lowing f	eature is used to hid	de the co	mplexity of c	data?		
	2.	(a) Abstraction	TOWING I	(b) Polymorphism		(c) Encapsu			
	0	A singe line commen	te hegin						
	3.		LS DEGIII.	(b) #		(c) //			
1		(a) *	the or			(-) //			
	4.	Which symbol denotes the end of a statement?  (a) : (b) { (c) }							
		(a);		(b) {		(c) }			
	5.	What is BlueJ?				( )	these		
		(a) GUI		(b) IDE		(c) none of	these		
В.	Fill	in the blanks.			. 1	etributed las	2011000		
	1.	Java can be used over all types of networks, so it is a distributed language.							
	2.	BlueJ includes a debugger to help us find our mistakes.							
	3.	A <u>Class</u> is a collection of objects of similar type in the real world.							
	4.	Folymorphism is the ability of a variable, function or object to take on multiple forms.							
	5.	compilation is a pr	ocess of	converting the pro	grammin	g statement	to a machine		
2	٥.	level code by a com							
C.	Sta	ate True or False.					6.1.		
9	1.	In an OOP language, a class can be derived from an object.  false							
3	2.	The class keyword declares the program's name.							
0	3.	Every Java statemen				-	Tour		
	4.	All Java programs b	begin by	executing main () f	unction.	-	True		
	5.	Polymorphism mea	ns takin	g many forms.		-	Mac		
D.	W	rite one word for the					Ramanas		
5	1.				1		Moss		
4	2.			om which objects ar			At Avant		
	3.			ideas rather than e			7037100		
	4.	It allows us define implementations.	one inte	rface or method and	d have m	ultiple	Polynorphia		

CLASS-VIII-COMPUTER Page 3