1. What are the various access specifiers for Java classes?

ANS

* Public
* Private
* Protected
* Default

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1. What is an infinite Loop? How is the infinite loop declared?

ANS

Infinite loop is a loop in which a loop is repeated infinite number of iterations is called infinite loop . In other words There is no end of the loop it will continues its iterations for infinite times.

EXAMPLE::

for(i=1;i>0;i++)

{

System.out.println(i);

}

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1. What is the difference between continue and break statement? Give an example to explain

ANS

CONTINUE

It will stops the current(or) particular iteration,then it will starts its execution after that continue statement.

Example:

for(i=0;i<5;i++)

{

if(i==3){

continue;

}

System.out.println(i);

}

Output:

0

1

2

4

Break:

The break statement that is used to break loop or switch statement . It

breaks the current flow of program for some specified condition.

Example:

for(i=0;i<=5;i++)

{

if(i==3)

break;

System.out.println(i);

}

Output:

0

1

2

|  |  |
| --- | --- |
|  | public class operatorExample { |
| public static void main(String args[]) { |
| int x = 4; |
| system.out.println(x++); |
| } |
| } |
|  |  |
| ANS  Output:  Error  Reason:  First letter for system should be capital. “System”.  ---------------------------------------------------------------------------------------------------------------  5. Can a class be a super class and a sub-class at the same time? Give an example. | |

1. What will be the output of the following piece of code? example.

ANS

Yes, a class can be a super class and a sub-class at the same time by using multilevel inheritance

Example

class A{

}

class B extends A{

}

Class C extends B{

}

Here, Class B be a super class of class C and subclass of class A.

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6. In the below example, what will be the output?

|  |  |
| --- | --- |
|  | public class superclass { |
| public void displayResult() { |
| System.out.println("Printing from superclass"); |
| } |
| } |
|  |
| public class subclass extends superclass { |
| public void displayResult() { |
| System.out.println("Displaying from subClass"); |
| super.displayResult(); |
| } |
|  |
| public static void main(String args[]) { |
| subclass obj = new subclass(); |
| obj.displayResult(); |
| } |
| } |
|  |  |
| ANS  Output:  Displaying from subclass  Printing from superclass  ---------------------------------------------------------------------------------------------------------------  7. What are the Four main principles of OOPS Concepts?   * Inheritance * Polymorphism * Abstraction * Encapsulation | |

1. What are the ways to declare an array? Give examples

ANS

There are three ways to declare an array.

Example:

datatype[] arr=new datatype[];

datatype []arr=new datatype[];

datatype arr[]=new datatype[];

1. What is the difference between a local variable and an instance variable? Explain with an example.

ANS

|  |  |
| --- | --- |
| LOCAL VARIABLE | INSTANCE VARIABLE |
| It is defined inside the class and inside the method | It is defined inside the class but outside the method only |
| It doesn’t include any access modifiers | It includes access modiefiers such as public ,private etc.. |
| It cannot be instantiated | It can only be instantiated |
| The scope of the variable is within the method only | The scope of the variable is within the class , In other words it is visible to both methods and outside the methods |
| Local variables destroyed when existing from the method | It is destroyed when the object is destroyed |

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1. Write a Java method to count all vowels in a string. Provide an input and show the output.

