Assignment -2

Abhishek Shrivastava

1. Which of the following are valid for **int[] a = new int[10];**
   a. a[0] = 97;
   b. a[1] = 'a';
   c. byte b = 10;
      a[2] = b;
   d. short s = 20;
      a[3] = s;
   e. a[4] = 10L;

2. Which of the following are valid
   a. int[] a = new int['a'];
   b. int[] a = new int[10.5];
   c. byte b=10;
      int[] a = new int[b];
   d. short s =20;
      int[] a = new int[s];
   e. int[] a = new int[10L];

3. Write a program in java to print the command line arguments and the no. of arguments passed.

```java
public class CmdArguments {


  public static void main(String[] args) {
    int countArgs=0;
    System.out.print("The command line arguments are: ");

    for (int i=0;i<args.length;i++)
    {
      System.out.print(args[i]+" ");
      countArgs++;
    }

    System.out.println("\nThe number of arguments passed are: "+countArgs);
  }
}
```

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4. Which of the following modifiers is applicable for local variable?
    a. public
    b. private
    c. protected
    d. static
    e. volatile
    f. transient
    g. final

5. Write a program in java showing the usage of instance, static and local variables.

```java
package variablessample;

 class Sample
{
   public static int staticVariable = 100; //This is a static variable

    int instanceVariable; //This is an instance variable

   public void sampleMethod(int n)
   {
     instanceVariable=n;
     int localVariable = n+10; // This is a local variable
     System.out.println("The static variable is: "+staticVariable);
     System.out.println("The instance variable is: "+instanceVariable);
     System.out.println("The local variable is: "+localVariable);

   }
}
public class VariablesSample {


   public static void main(String[] args) {
     Sample obj = new Sample();
     obj.sampleMethod(2);

     Sample obj2 = new Sample();
     obj.sampleMethod(4);
     }
}
```