|  |  |
| --- | --- |
| **1)** **Which of the following is a valid variable declaration? (choose 2)**  **1 int \_javaChamp;**  **2 int \_&%javaChamp;**  **3 int &javaChamp;**  **4 int 2009JavaChamp;**  **5 int $JavaChamp;** | **2. Given:**  **public class Snippet {**  **public static void main(String ags[]) {**  **Integer i = ags[0];**  **int j = 12;**  **System.out.println("It is " + (j == i) + " that j==i.");**  **}}**  **What is the result when the programmer attempts to compile the code and run it with the**  **command java Converter 12?**  Ans:compile time error |
| **3). What is the result of running the following program (which was compiled fine) given the**  **command line:**  **java Tester one two**  **public class Tester {**  **public static void main(String[] args) {**  **if (args.length > 0)**  **for (String str : args)**  **System.out.print(str);**  **System.out.print("--");**  **}**  **}**  **No. Answers Correct**  **1 one--two-- 2 onetwo**  **3 onetwo-- 4 Tester--one--two--**  **5 Testeronetwo--** | **4). What is the output of the following code ?**  **public static void main(String[] asd) {**  **int a, b;**  **a = 10;**  **b = (a == 1) ? 20 : 30;**  **System.out.println("Value of b is : " + b);**  **b = (a == 10) ? 20 : 30;**  **System.out.println("Value of b is : " + b);**  **}}**  **Ans:Value of b is: 30**  **Value of b is: 20** |
| **5 What is the result of compiling and running the following code?**  **public class Tester {**  **public static void main(String[] args) {**  **do {**  **System.out.print("inside do");**  **} while (false);**  **while (false) {**  **System.out.print("inside while");**  **}**  **System.out.print("outside");**  **}**  **}**  **No. Answers Correct**  **1 inside dooutside**  **2 Outside**  **3 compilation error because of the second loop (while**  **statement)** | **6) What will be the output when attempt to compile and execute this code:**  **class Test{**  **public static void main(String arg[])**  **{**  **Number n=10;**  **int i=10;**  **System.out.println(n==i);**  **}**  **}**  **1 true**  **2 false**  **3 compile time error**  **4 run time exception.** |
| **7.** **Given that Long and Integer extend Number, what is the result of compiling and running the**  **following code?**  **public class Tester {**  **public static void main(String[] args) {**  **Number x = 12; // Line 5**  **Number y = (Long) x; // Line 6**  **System.out.print(x+""+y); // Line 7**  **}**  **}**  **1 1212**  **2 Compilation error at line 5**  **3 Compilation error at line 6**  **4 Compilation error at line 7**  **5 An exception is thrown at run time** | **8. What is the result of compiling and running the following code?**  **public class Tester {**  **public static void main(String[] args) {**  **Integer sum1 = 125; //line 1**  **int sum2 = 125; //line 2**  **System.out.print(sum1.equals(sum2)); //line 3**  **System.out.print(sum2.equals(sum1)); //line 4**  **System.out.print(sum1==sum2); //line 5**  **}**  **}**  **1 Compilation error at line 3**  **2 Compilation error at line 4**  **3 truetruefalse**  **4 truetrueture** |
| **9.** **What is the result of compiling and running the following program?**  **class ExamDemo2{**  **static Byte b;**  **public static void main(String [] args){**  **b=10;**  **b+=10;**  **System.out.println(b);**  **}**  **}**  **1 Compilation Fails**  **2 20**  **3 Run Time Error class?** | **10.** what will be the output of the following code snippet?  class q13  {  public static void main(String args[])  {  int a[] = {10,20,3,};  System.out.println(a.length);  }  }  1)4  2)3  3)NullPointerException  4)ArrayIndexOutOfBoundsException  5)Compilation Error |
| **Question:11**  **What will be the output of compiling and running this code:**  **class TestByte{**  **public static void main(String arg[])**  **{**  **final Integer a=10;**  **int b=2;**  **switch(b)**  **{**  **case 1: System.out.println("1");**  **break;**  **case 2: System.out.println("2");**  **break;**  **case a: System.out.println("3");**  **break;**  **}**  **}**  **}**  **No. Answers Correct**  **1 compiler error 2 prints 2**  **3 Runtime exception is generated.**  **4 prints 3** | **12. What is the result of compiling and running the following code?**  **public static void main(String[] args) {**  **boolean flag = false;**  **int x = 0;**  **do {**  **x++;**  **} while (flag=!flag);**  **System.out.println(x);**  **}**  **No. Answers Correct**  **1 0 2 1**  **3 2 4 3** |
| **13.Given:**  **What is true after running the following code? (choose 2)**  **public static void main(String[] args) {**  **String entries[] = {"entry1","entry2"};**  **int count=0;**  **while (entries [count++]!=null){**  **System.out.println(count);**  **}**  **System.out.println(count);**  **}**  **No. Answers Correct**  **1 An Exception will be thrown**  **2 0 will be printed as part of the output**  **3 2 will be printed as part of the output**  **4 3 will be printed as part of the output** | **14.Given:**  **What is the result of compiling and running the following program?**  **public class Tester {**  **public static void main(String[] args) {**  **int x = 1;**  **int y=0;**  **while(++x<5) y++;**  **System.out.println(y);**  **}**  **}**  **No. Answers Correct**  **1 0**  **2 3**  **3 4**  **4 Compilation error** |

**15)Write a program to check whether the given number is prime or not ?**

**public class IsPrime {**

**public static void main(String args[]){**

**int i,m=0,flag=0;**

**int n=3; //it is the number to be checked**

**m=n/2;**

**if(n==0||n==1){**

**System.out.println(n + " is not a prime number");**

**}**

**else {**

**for(i = 2; i <= m; i++){**

**if(n % i == 0){**

**System.out.println(n+" is not prime number");**

**flag=1;**

**break;**

**}**

**}**

**if(flag==0) {**

**System.out.println(n+" is prime number");**

**}**

**}//end of else**

**}**

**}**

**16) What is class and object in Java?.**

**Ans:Class: It is a user defined data type in java.A class is a collection of commonproperties and commaon actions of a group of objects. Class is a blue print for creating an object and it is having variables and methods .For a class we can create number of objects in java and without class object creation is not possible.**

**Object: It is an instance of class .Any entity that exists physically in the real world which requires some memory is object.Every object will contain some properties and some actions.Every object have state ,behaviour and identity.Behaviour is an action performed by object and Identity is every object have unique identity and state is variables and properties of an object.**

**17)What is constructor and with example?**

**Ans: Constructor is a block which is used for initializing the instance variables.**

**1.The name of the constructor must be same as that of the class name.**

**2.A constructor should not have any return type,not even void**

**3. The constructor will be executed during the object creation time.**

**4.The constructor will be execute one time for every object that is created.**

**The constructor classified into two types**

**1. Zero parameterized constructor: If constructor does not have any parameters then it is zero parameterized constructor.**

**Syntax: class ClassName {**

**ClassName() {**

**}**

**}**

**2.Parameterized constructor : If a constructor contains some parameters ,then it is parameterized constructor.**

**Syntax: class ClassName {**

**ClassName(list of parameters) {**

**}**

**}**

**18)** **What is classpath and path?**

**Ans: classpath: classpath is system environment variable used by the java compiler and jvm.Java compiler and JVM is used classpath to determine the location of required class files.**

**path:Once we installed java on our machine,it is required to set the path environment variable to conveniently run the executable(javac.exe,java.exe,javadoc.exe etc.,) files from any directory without having to type the full path of the command such as c:/javac TestClass.java .**

**19)Write a program display even numbers in the given array?**

**public class EvenNum {**

**public static void main(String[] args) {**

**int arr[] = {4,7,8,56,24,90,86,47};**

**System.out.println("Even Numbers: ");**

**for(int i =0; i < arr.length; i++) {**

**if(arr[i] % 2 == 0) {**

**System.out.print(arr[i]);**

**}**

**}**

**}**

**}**

**output: Even Numbers :**

**4 8 56 24 90 86**

**20)Write a program accept name and display in reverse order?**

**public class ReverseString {**

**public static void main(String[] args) {**

**String str = "pavani";**

**System.out.println("Reverse of a given String is : ");**

**char[] ch = str.toCharArray();**

**for(int i = ch.length-1;i>=0;i--) {**

**System.out.println(ch[i]);**

**}**

**}**

**}**

**output: Reverse of a given String is : inavap**

**21)Write a program to find biggest of given array elements?**

**Solution : public** **class** biggestNumInGivenArray {

**public** **static** **int** getLargest(**int**[] num,**int** res) {

**int** temp;

**for**(**int** i=0;i<res;i++) {

**for**(**int** j=i+1;j<res;j++) {

**if**(num[i] >num[j]) {

temp = num[i];

num[i] = num[j];

num[j] = temp;

}

}

}

**return** num[res-1];

}

**public** **static** **void** main(String[] args) {

**int** num[] = {23,786,46,89,34,234,899};

System.***out***.println("Largest Number: " + *getLargest*(num,7));

}

}

output:Largest Number:899

**22)Write a program display vowels in the given name?**

**Solution:public** **class** VowelsInString {

**public** **static** **void** main(String[] args) {

String str = "united";

**int** vowels =0;

**for**(**int** i=0;i<str.length();i++) {

**char** ch = str.charAt(i);

**if**(ch == 'a' || ch == 'e' || ch =='i' || ch == 'o' || ch == 'u') {

vowels++;

System.***out***.println(ch);

}

}

System.***out***.println("Numer of vowels: " + vowels);

}

}

output: u

i

e

Number of vowels: 3

**23)Write a program to check whether the given number is strong number or not?**

**solution:public** **class** StrongNumber {

**static** String isStrong(**int** num) {

**int** copy = num;

String res = " ";

**if** (copy == *sumOfFact*(145)) {

res += copy + " is strong number";

} **else** {

res += copy + " is not strong number";

}

**return** res;

}

**static** **int** sumOfFact(**int** num) {

**int** sum = 0;

**while** (num != 0) {

**int** fact = 1;

**int** digit = num % 10;

**for** (**int** i = 1; i <= digit; i++) {

fact = fact \* i;

}

sum += fact;

num = num / 10;

}

**return** sum;

}

**public** **static** **void** main(String[] args) {

System.***out***.println(*sumOfFact*(145));

System.***out***.println(*isStrong*(145));

}

}

output:145

145 is strong number

**24)Write a program to find sum of given array elements?**

**Solution:**

**public** **class** SumOfArray {

**public** **static** **void** main(String[] args) {

**int** arr[] = **new** **int**[] {1,78,95,4,86};

**int** sum =0;

**for**(**int** i=0;i<arr.length;i++) {

sum = sum + arr[i];

}

System.***out***.println("Sum of all the elements : " + sum);

}

}

**output:** Sum of all the elements : 264

**25)Write a program to encrypt the given name ?**