

JAVA GROUP ASSIGNMENT

INSTRUCTION FOLLOW THE BELOW INSTRUCTIONS AND KINDLY NOTE THE WORK SHOULD BE SUBMITTED BY NEXT WEEK ON 17/3/2020 OBSERVE DEADLINE

PART 1 FROM YOUR GROUP ANSWER ANY 7 QUESTIONS FROM THIS PART

1. State and explain type modifiers used in JAVA.
2. Discuss the features of OOP
3. State and explain any six variable types used in JAVA.
4. There are two kinds of expressions in JAVA. Discuss them.
5. Discuss variable scope in JAVA.
6. With an example, differentiate between global and local variable.
7. State and explain any three literals used in JAVA.
8. There are four data type modifiers in JAVA. Discuss them.
9. With an aid of an example in a program, write a program using any of the control statements in JAVA.
10. With an aid of a program, write a code using loops.
11. Define a function and discuss its parts.
12. Discuss the syntax of control structures in java
13. A program can be called in any form in JAVA. Discuss how they can be called.
14. Differentiate between;
 - a) Constructor and destructor.
 - b) Overloading and Overriding.
 - c) Inline and Friend functions.
 - d) Pointers and Arrays.
15. There are three rules applied in inheritance. Discuss.
16. State and Explain types of inheritance.
17. State and explain any five operators used in JAVA.
18. Differentiate between the virtual functions and the pure functions as well as dynamic leakage and late binding.
19. Discuss the concepts of OOP and write code for any.
20. State advantages and disadvantages of abstraction.
21. State and explain the key fundamental statements in a program.
22. Discuss data encapsulation.
23. Exception handling is built upon three key words. Discuss.
24. Define dynamic memory and explain how it is divided.

PART TWO WRITE ANY 8 PROGRAMS FROM YOUR GROUPS TO PERFORM THE FOLLOWING

1. Java Program to print Floyd's triangle

2. Java program to print Pascal triangle
3. Java Program to display Fibonacci series using loops
4. Java Program to Add two Numbers
5. Java Program to Calculate Area of Rectangle
6. Java Program to Calculate Area of Square
7. Java Program to Calculate the area of Triangle
8. Java Program to Calculate Area and Circumference of Circle
9. Java Program to Check Even or Odd Number
10. Java Program to Multiply two Numbers
11. Java Program to check Leap Year
12. Java Program to check whether input character is vowel or consonant
13. Java Program to calculate compound interest
14. Java Program to calculate simple interest
15. Java Program to find quotient and remainder
16. Java Program to calculate power of a number
17. Java Program to find Factorial using loops
18. Java Program to perform bubble sort on Strings
19. Java program to find occurrence of a character in a String
20. Java program to count vowels and consonants in a String
21. Java Program to Calculate average of numbers using Array
22. Java Program to Add the elements of an Array
23. Java Program to reverse an array
24. Java Program to sort an array in ascending order
25. Java Program to convert char Array to String
26. Java Program to Add Two Matrix Using Multi-dimensional Arrays
27. Java Program to make a calculator using switch case
28. Java Program to Calculate grades of Student
29. Java Program to perform Arithmetic Operation using Method Overloading
30. Java Program to find Area of Geometric figures using method overloading
31. Java Program to Reverse a number using for, while loop and recursion
32. Java Program to check Palindrome string using Recursion
33. Java Program to Reverse a String using Recursion
34. Java Program to find Factorial of a number using Recursion