ASSIGNMENT-2

CLASSES AND METHODS

1. Write a Java Program that has a class named "Stack". Perform the following operations on stack class:
   a.   Push data into stack
   b.   Pop data into stack
   c.   Search element from stack
   d.   Display all elements from stack

   Create methods push(),pop(),search(),display().Use necessary variables and data types.

2. Write a Java Program that has a class called Member and it has following operations:
   a.   Power()-> returns n raised to m.
   b.   Cube()-> returns cube of n
   c.   Reverse()-> returns reverse of given number.
   Declare necessary variables and methods and calculate.

3. Write a Java Program that has a class called Numbersystem. Make functions for
   a.   toBinary()->returns binary equivalent of its decimal
   b.   toOctal()-> returns octal equivalent of its decimal
   c.   toHexadecimal()-> returns hexadecimal equivalent of given decimal
   Use necessary data members, member variables.

4. Write a Java Program that has a class named "Books" with datam embers such as Book No, Authorname, Bookname, Publication, Price and Edition.
   Following methods are required to perform operations:
   a.   addBook()
   b.   SearchBook()
   c.   RemoveBook()
   Perform all operations for atleast 3 books.

5. Write a Java Program that has a class named "Queue" and perform operations on it:
   a.   Insert()-> it will insert an element.
   b.   Delete()->it will delete an element
   c.   Search()->it searches for element
   d.   Display()->it displays all the elements.

6. Write a Java Program which sorts the elements of an array in ascending order.

7. Write a Java Program to create student class and generate result of student with the data members like total, per, grade.[take appropriate data members and member methods]

8. Write a Java Program to create an Employee class and generate salary slip for the employee.

9. Write a Java program which implements the Default Constructor.

10. Write a Java program which implements the Parameterized Constructor.

11. Write a Java program which implements the Overloading of Constructors.

12. Write a Java program which implements the use of Method Overloading.

13. Write a Java Program which swaps the value of two variables using appropriate instance variable, constructor and member method.

14. Write a Java Program which finds the Recursion of a number using object and class.

15. Write a Java Program which implements the call by value.