Assignment :-

1. Complete the code done in class

2. Complete the Date assignment including setting the date, adding days, months and years, try compare date

3. Complete the following exercise:-

8. [12:45, 30/9/2025] +91 98606 79927: 8. Write a Java program to rotate an array (length 7) of integers in left direction. The rotated data should be stored in a new array.

Sample Output:

Original Array: [10,20, 30, 40,50,60,70]

Rotated Array: [70,60,50,40,30,20,10]

9. Write a Java program to swap the first and last elements of an array (length must be at least 1) and create a new array.

Sample Output:

Original Array: [20, 30, 40]

New array after swapping the first and last elements: [40, 30, 20]

10. Write a Java program to multiply corresponding elements of two arrays of integers.

Sample Output:

Array1: [1, 3, -5, 4]

Array2: [1, 4, -5, -2]

Result: 1, 12, 25, -8

11. Write a Java program to rearrange all the elements of an given array of integers in ascending or descending order based on the choice of the user thus forming new arrays.

Sample Output :

1. Enter the total numbers you wish to sort

10

Enter the value

82

Enter the value

59

Enter the value

99

…. (Store all these numbers in an integer array)

2. Sort in ascending order

3. Sort in descending order

Enter your choice

2 - Ascending Array Is : [59,89,99,….]

3 – Descending array is : [99,89,59,…..]

12. Write a Java program to merge two given sorted array of integers and create a new sorted array.

array1 = [1,2,3,4]

array2 = [2,5,7, 8]

result = [1,2,2,3,4,5,7,8]

13. Write a Java program to check if a positive number is a palindrome or not.

Test Condition:

Input a positive integer: 151

Is 151 is a palindrome number?

Output : true

14. Write a Java program to find the index of a value in a sorted array. If the value does not find return the index where it would be if it were inserted in order.

Example:

[1, 2, 4, 5, 6] 5(target) -> 3(index)

[1, 2, 4, 5, 6] 0(target) -> 0(index)

[1, 2, 4, 5, 6] 7(target) -> 5(index)

15. Write a Java program to find the total number of occurrence of a specified value in an array.

Test :

Array : [10,99,34,78,99,21,34,56,34,78]

Output : 10 appears 1

99 appears 2

34 appears 3 and so on.

[12:46, 30/9/2025] +91 98606 79927: 1. Create a class named 'Student' with String variable 'name' , integer variable 'roll\_no'., String variable ‘phone\_no’ and String variable ‘address’

a. Assign the value of roll\_no as '2' and that of name as "John" by creating an object of the class Student.

b. Assign and print the roll number, phone number and address of two students having names "Sam" and "John" respectively by creating two objects of class 'Student'.

2. Write a program to print the area and perimeter of a triangle having sides of 3, 4 and 5 units by creating a class named 'Triangle' with constructor having the three sides as its parameters.

3. Write a program to print the area of two rectangles having sides (4,5) and (5,8) respectively by creating a class named 'Rectangle' with a method name…

[12:46, 30/9/2025] +91 98606 79927: 1. Create a class with a method that prints "This is parent class" and its subclass with another method that prints "This is child class". Now, create an object for each of the class and call

1 - method of parent class by object of parent class

2 - method of child class by object of child class

3 - method of parent class by object of child class

2. Create a class named 'Member' having the following members:

Data members

1 - Name

2 - Age

3 - Phone number

4 - Address

5 - Salary

It also has a method named 'printSalary' which prints the salary of the members.

Create an object of the above class and take input from the console for each of the fields and finally display the data.

Now create a class inherited from Members called PrimeMembers and add the propertie …

1. JoiningYear

2. JoiningFees

3. isActive

To the PrimeMembers add a method called display and display all the fields from the parent class and derived class. Each of the above classes should have their respective accessors and mutators.

3. Create a class named 'Rectangle' with two data members 'length' and 'breadth' and two methods to print the area and perimeter of the rectangle respectively. Its constructor having parameters for length and breadth is used to initialize length and breadth of the rectangle. Let class 'Square' inherit the 'Rectangle' class with its constructor having a parameter for its side. Print the area and perimeter of a rectangle and a square.

4. Create a class named 'Shape' with a method to print "This is shape". Then create two other classes named 'Rectangle', 'Circle' inheriting the Shape class, both having a method to print "This is rectangular shape" and "This is circular shape" respectively. Create a subclass 'Square' of 'Rectangle' having a method to print "Square is a rectangle". Now call the method of 'Shape' and 'Rectangle' class by the object of 'Square' class.