

Object Oriented Programming using Java

Assignment - 3

Array and Array of Objects

1. Write a Java program to store 10 numbers in an array and display them. Initialize the array at the runtime.
2. Write a Java program to initialize an array with 10 numbers at the run time. Write code display the even number and odd numbers separately.
3. Write a Java program to find an element is present in the array or not. Initialize the array at the run time. Also take the number to be search as user input.
4. Write a Java program to sort an array using bubble sort.
5. Write a Java program to find largest number of an array. Define a method **public int findMax(int nums[])**, which will take an array as argument and return the largest number. Initialize the array at the runtime.
6. Write a Java program to find reverse an array without using a second array. Define a method **void reverseArray(int arr[])** to perform the operation.
7. Write a Java program to perform the addition between two matrices. Check the order of the matrices before performing the addition operation.
8. Write a Java program to perform multiplication between two matrices.
9. Develop a class to represent a Book with data members like title, author and price. Create an array of 5 book object and initialize them with parameterized constructor. Display the details of all the books.
10. Write a java class to represent Employee with data members like id, name and salary. Create an array of 5 employees and initialize them at the run time. Display the details of all the employees. Search the array and display the details of employee with id 101. If not available display suitable message. Find the highest paid employee and average salary of all the employees.