Assignment – 2

1. **Write a java program to perform these operations:**
2. **Employee salary can be access by the same employee member.**
3. **Employee name can be access by anyone.**
4. **Employee ID can be access by another group in same company.**

import java.util.Scanner;

class MaxMin {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter how many element you want: ");

        int size = sc.nextInt();

        int[] arr = new int[size];

        System.out.print("Enter the space separated array elements: ");

        for (int i = 0; i < size; i++)

            arr[i] = sc.nextInt();

        int max = Integer.MIN\_VALUE, min = Integer.MAX\_VALUE;

        for (int i = 0; i < size; i++) {

            if (arr[i] > max)

                max = arr[i];

            if (arr[i] < min)

                min = arr[i];

        }

        System.out.println("Max: " + max);

        System.out.println("Min: " + min);

        sc.close();

    }

}

Source Code(a)



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$ javac MaxMin.java

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$ java MaxMin

Enter how many elements you want: 5

Enter the space separated array elements: 2 4 1 6 7

Max: 7

Min: 1

Output

1. **Implement a java program to reverse an array.**

import java.util.Scanner;

class RevArray {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter how many element you want: ");

        int n = sc.nextInt();

        int[] arr = new int[n];

        System.out.print("Enter the space separated array elements: ");

        for (int i = 0; i < n; i++)

            arr[i] = sc.nextInt();

        System.out.print("Reversed array: ");

        for (int i = 0; i < n / 2; i++) {

            int temp = arr[i];

            arr[i] = arr[n - i - 1];

            arr[n - i - 1] = temp;

        }

        for (int i = 0; i < n; i++)

            System.out.print(arr[i] + " ");

        sc.close();

    }

}

Source Code



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$ javac RevArray.java

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$ java RevArray

Enter how many element you want: 5

Enter the space separated array elements: 1 2 3 4 5

Reversed array: 5 4 3 2 1

Output

1. **Write a java program to check an array is palindrome or not.**

import java.util.Scanner;

class PalindromeArr {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter how many element you want: ");

        int n = sc.nextInt();

        int[] arr = new int[n];

        System.out.print("Enter the space separated array elements: ");

        for (int i = 0; i < n; i++)

            arr[i] = sc.nextInt();

        boolean isPalindrome = true;

        for (int i = 0; i < n / 2; i++) {

            if (arr[i] != arr[n - i - 1]) {

                isPalindrome = false;

                break;

            }

        }

        if (isPalindrome)

            System.out.println("Array is palindrome");

        else

            System.out.println("Array is not palindrome");

        sc.close();

    }

}

Source Code



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$ javac PalindromeArr.java

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$ java PalindromeArr

Enter how many element you want: 4

Enter the space separated array elements: 1 2 2 1

Array is palindrome

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$ java PalindromeArr

Enter how many element you want: 4

Enter the space separated array elements: 1 2 3 1

Array is not palindrome

Output

1. **Write a java program Array Index Access Using Switch Case in Java.**

import java.util.Scanner;

class Switch {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int[] arr = { 1, 2, 3, 4, 5 };

        int choice;

        System.out.print("Enter any choice : ");

        switch (choice = sc.nextInt()) {

            case 0:

                System.out.println("Value is:" + arr[choice]);

                break;

            case 1:

                System.out.println("Value is:" + arr[choice]);

                break;

            case 2:

                System.out.println("Value is:" + arr[choice]);

                break;

            case 3:

                System.out.println("Value is:" + arr[choice]);

                break;

            case 4:

                System.out.println("Value is:" + arr[choice]);

                break;

            case 5:

                System.out.println("Value is:" + arr[choice]);

                break;

            default:

                System.out.println("Value is: " + arr[choice]);

                break;

        }

        sc.close();

    }

}

Source Code



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$ javac Switch.java

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$ java Switch

Enter any choice: 3

Value is: 4

Output