

## ASSIGNMENT SOLUTIONS

1. Write a program to demonstrate method overloading with 3 different parameters.

```
Ans  public class MethodOverloadingDemo {

    public int add(int a, int b) {
        return a + b;
    }

    public int add(int a, int b, int c) {
        return a + b + c;
    }

    public double add(double a, double b) {
        return a + b;
    }

    public static void main(String[] args) {
        MethodOverloadingDemo demo = new MethodOverloadingDemo();

        int result1 = demo.add(5, 10);
        System.out.println("Result 1: " + result1);

        int result2 = demo.add(5, 10, 15);
        System.out.println("Result 2: " + result2);

        double result3 = demo.add(2.5, 3.5);
        System.out.println("Result 3: " + result3);
    }
}
```

2. Write a program to create an object of a class that contains a method and call that class method in the main method.

```
Ans public class New {  
  
    public void displayMessage() {  
        System.out.println("Hello from the MyClass!");  
    }  
  
    public static void main(String[] args) {  
  
        New myObject = new New();  
  
        myObject.displayMessage();  
    }  
}
```

3. Write a Java program to calculate the sum of all elements in an integer array

```
Ans public class Sum {  
  
    public static void main(String[] args)  
    {  
        int a[]={1,2,3,4,5,6,7};  
        int result=0;  
        for(int i=0;i<=6;i++)  
        {  
            result=result+a[i];  
        }  
        System.out.println(result);  
    }  
}
```

4. Write a Java program to find the index of a specific element in an integer array.?

```
Ans import java.util.*;

public class Specific {
    public static void main(String[] args)
    {
        int a[]={10,20,30,40,50};
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter an element to find:");
        int target=sc.nextInt();
        int index=-1;
        for(int i=0;i<a.length;i++)
        {
            if(a[i]==target)
            {
                index=i;
                break;
            }
        }
        if(index!=-1)
        {
            System.out.println("Element "+target+" found at index "+index);
        }
        else{
            System.out.println("Element "+target+" not found at index
"+index);
        }
    }
}
```

5. Write a Java program to print an entire array

```
Ans public class Entire {  
  
    public static void main(String[] args) {  
  
        int[] numbers = { 1, 2, 3, 4, 5 };  
  
        System.out.print("Array: [");  
        for (int i = 0; i < numbers.length; i++) {  
            System.out.print(numbers[i]);  
  
            if (i < numbers.length - 1) {  
                System.out.print(", ");  
            }  
        }  
        System.out.println("]");  
    }  
}
```