

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

Ans:

```
public class test2 {  
  
    static int add(int x, int y){  
        return x + y;  
    }  
  
    static int add(int x, int y, int z){  
        return x + y + z;  
    }  
  
    static double add(double x, double y, double z){  
        return x + y + z;  
    }  
  
    public static void main(String[] args) {  
        System.out.println(add(4, 7));  
        System.out.println(add(4,5,9));  
        System.out.println(add(4.2, 7.5, 1.2));  
    }  
}
```

Output:

```
11  
18  
12.899999999999999
```

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

Ans:

```
class test{  
  
    public int add(int x, int y){  
        int result = x + y;  
        return result;  
    }  
  
    public static void main(String[] args) {  
        test obj = new test();  
        int result = obj.add(4, 9);  
    }  
}
```

```
        System.out.println("Result = "+ result);
    }
}
```

Output:  
13

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

**Ans:**

```
public class test{

    public static void main(String[] args) {

        int [] nums = {10,20,30,40,50};

        int res = 0;
        for(int x : nums){
            res += x;
        }
        System.out.println("sum of all elements is = " + res);

    }
}
```

Output:  
sum of all elements is = 150

**4. Write a java program to find index of a specific element in an array.**

**Ans:**

```
import java.util.Scanner;

class test{

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        int [] nums = {11,22,33,44,55,66};

        System.out.print("Enter the element: ");
        int find = sc.nextInt();

        for(int i = 0; i < nums.length; i++){
            if(find == nums[i]){
```

```

        System.out.println("Element found at index no: " + i);
        System.exit(0);
    }
}
System.out.println("element index is not found !!!");
}
}

```

Output:

Enter the element: 55

Element found at index no: 4

**5. Write a java program to print an entire array.**

Ans:

```

class test{
    public static void main(String[] args) {

        int [] a = {10,20,30,40,50,60,70,80};

        // using for loop for print
        for(int i = 0; i < a.length; i++){
            System.out.print(a[i] + " ");
        }

        System.out.println();

        // using for each loop for print
        for(int x : a){
            System.out.print(x + " ");
        }
    }
}

```

Output:

10 20 30 40 50 60 70 80

10 20 30 40 50 60 70 80