29TH MAY PRACTICAL ASSIGNMENTS

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

Ans: Program to demonstrate method overloading with 3 different parameters:

```
public class MethodOverloadingExample {
    public static void main(String[] args) {
        // Calling the overloaded methods
        add(5, 10);
        add(5, 10, 15);
        add(5.5, 10.5);
    }

    // Method with two integer parameters
    public static void add(int a, int b) {
        int sum = a + b;
        System.out.println("Sum of two integers: " + sum);
    }

    // Method with three integer parameters
    public static void add(int a, int b, int c) {
        int sum = a + b + c;
        System.out.println("Sum of three integers: " + sum);
    }

    // Method with two double parameters
    public static void add(double a, double b) {
        double sum = a + b;
        System.out.println("Sum of two doubles: " + sum);
    }
```

```
}
```

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

Ans: Program to create an object of a class which contains a method and call that class method in the main method:

```
public class MyClass {
   public void myMethod() {
      System.out.println("This is my method.");
   }

   public static void main(String[] args) {
      MyClass obj = new MyClass(); // Creating an object of MyClass
      obj.myMethod(); // Calling the method using the object
   }
}
```

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

Ans: Java program to calculate the sum of all elements in an integer array:

```
public class ArraySum {
   public static void main(String[] args) {
      int[] numbers = { 1, 2, 3, 4, 5 };
      int sum = 0;

      for (int number : numbers) {
         sum += number;
      }

      System.out.println("Sum of array elements: " + sum);
   }
}
```

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

Ans: Java program to find the index of a specific element in an integer array:

```
public class ArrayIndex {
```

```
    public static void main(String[] args) {
        int[] numbers = { 10, 20, 30, 40, 50 };
        int target = 30;
        int index = -1;

        for (int i = 0; i < numbers.length; i++) {
            if (numbers[i] == target) {
                index = i;
                break;
            }
        }

        if (index != -1) {
            System.out.println("Element found at index: " + index);
        } else {
            System.out.println("Element not found in the array.");
        }
    }
}
```

Java program to print an entire array:

```
public class PrintArray {
    public static void main(String[] args) {
        int[] numbers = { 1, 2, 3, 4, 5 };

        System.out.println("Array elements:");
        for (int number : numbers) {
            System.out.println(number);
        }
    }
}
```

You can compile and run these programs to see the desired outputs.

5. Write a Java program to print an entire array?

Ans: Java program to print an entire array:

```
public class PrintArray {
    public static void main(String[] args) {
        int[] numbers = { 1, 2, 3, 4, 5 };

        System.out.println("Array elements:");
        for (int number : numbers) {
            System.out.println(number);
        }
    }
}
```