**Assignment Questions Answers**

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

public class MethodOverloadingDemo {

public void printMessage(String message) {

System.out.println("Message: " + message);

}

public void printMessage(int number) {

System.out.println("Number: " + number);

}

public void printMessage(String message, int number) {

System.out.println("Message: " + message + ", Number: " + number);

}

public static void main(String[] args) {

MethodOverloadingDemo demo = new MethodOverloadingDemo();

demo.printMessage("Hello");

demo.printMessage(10);

demo.printMessage("Hello World", 20);

}

}

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

public class MyClass {

public void printMessage() {

System.out.println("Hello, World!");

}

public static void main(String[] args) {

// Create an object of MyClass

MyClass myObject = new MyClass();

// Call the printMessage() method of the MyClass object

myObject.printMessage();

}

}

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

public class ArraySum {

public static void main(String[] args) {

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

int sum = 0;

for (int i = 0; i < array.length; i++) {

sum += array[i];

}

System.out.println("Sum: " + sum);

}

}

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

public class ArrayIndex {

public static void main(String[] args) {

int[] array = {5, 2, 7, 4, 9};

int targetElement = 7;

int index = -1;

for (int i = 0; i < array.length; i++) {

if (array[i] == targetElement) {

index = i;

break;

}

}

System.out.println("Index of " + targetElement + ": " + index);

}

}

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

public class PrintArray {

public static void main(String[] args) {

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

for (int i = 0; i < array.length; i++) {

System.out.println(array[i]);

}

}

}