**Assignment 1**

1. **WAP to print Numbers from 1 to 10 using for loop?**

public class ForLoopExample {

public static void main(String[] args) {

for (int i = 1; i <= 10; i++) {

System.out.print(i + " ");

}

}

}

1. **WAP to print Numbers from 1 to 10 using while loop?**

public class WhileLoopExample {

public static void main(String[] args) {

int i = 1;

while (i <= 10) {

System.out.print(i + " ");

i++;

}

}

}

1. **WAP to print Numbers from 1 to 10 using do-while loop?**

public class DoWhileLoopExample {

public static void main(String[] args) {

int i = 1;

do {

System.out.print(i + " ");

i++;

} while (i <= 10);

}

}

1. **Find the Sum of Numbers from 1 to N and Print Even Numbers:**

import java.util.Scanner;

public class SumAndEvenNumbers {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the value of N: ");

int N = scanner.nextInt();

int sum = 0;

int i = 1;

while (i <= N) {

sum += i;

if (i % 2 == 0) {

System.out.print(i + " ");

}

i++;

}

System.out.println("\nSum of numbers from 1 to " + N + ": " + sum);

}

}

1. **Reverse a Number from Given Range to 1:**

import java.util.Scanner;

public class ReverseNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the value of N: ");

int N = scanner.nextInt();

for (int i = N; i >= 1; i--) {

System.out.print(i + " ");

}

}

}

1. **Print Odd Numbers from 1 to 100:**

public class PrintOddNumbers {

public static void main(String[] args) {

for (int i = 1; i <= 100; i += 2) {

System.out.print(i + " ");

}

}

}

1. **Print Numbers Divisible by 3 or 5 from a Given Range:**

import java.util.Scanner;

public class DivisibleBy3Or5 {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the starting range: ");

int start = scanner.nextInt();

System.out.print("Enter the ending range: ");

int end = scanner.nextInt();

for (int i = start; i <= end; i++) {

if (i % 3 == 0 || i % 5 == 0) {

System.out.print(i + " ");

}

}

}

}

1. **Print Numbers Divisible by 3 and 5 from a Given Range:**

import java.util.Scanner;

public class DivisibleBy3And5 {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the starting range: ");

int start = scanner.nextInt();

System.out.print("Enter the ending range: ");

int end = scanner.nextInt();

for (int i = start; i <= end; i++) {

if (i % 15 == 0) { // Divisible by both 3 and 5

System.out.print(i + " ");

}

}

}

}

1. **Print Sum of Nth Natural Number:**

import java.util.Scanner;

public class SumOfNthNaturalNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the value of N: ");

int N = scanner.nextInt();

int sum = 0;

for (int i = 1; i <= N; i++) {

sum += i;

}

System.out.println("Sum of first " + N + " natural numbers: " + sum);

}

}