Factorial:

package Assignment1;

public class Factorial {

public static void main(String[] args) {

int number = 5;

long firstnumber = 1;

int i = 1;

while (i <= number) {

firstnumber = firstnumber \* i;

i++;

}

System.out.println("Factorial of " + number + " is: " + firstnumber);

}

}

Area of Traingle:

package Assignment1;

import java.util.Scanner;

public class areaoftriangle {

public static void main(String args[]) {

@SuppressWarnings("resource")

Scanner scanner = new Scanner(System.in);

System.out.println("Enter the length of the Triangle:");

double length = scanner.nextDouble();

System.out.println("Enter the height of the Triangle:");

double height = scanner.nextDouble();

double area = (length \* height) / 2;

System.out.println("Area of Triangle is: " + area);

}

}

**Even Numbers:**

package Assignment1;

public class evenNumbers {

public static void main(String args[]) {

int n = 50;

System.out.print("Even Numbers from 1 to " + n + " are: ");

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

if (i % 2 == 0) {

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

}

}

}

}

Fibonasci Series:

package Assignment1;

public class FibonacciSeries {

public static void main(String[] args) {

int n = 10, t1 = 0, t2 = 1;

System.out.print("First " + n + " terms: ");

for (int i = 1; i <= n; ++i)

{

System.out.print(t1 + " , ");

int sum = t1 + t2;

t1 = t2;

t2 = sum;

}

}

}

**Leap year:**

package Assignment1;

import java.util.Scanner;

public class LeapYear {

public static void main(String[] args) {

int year;

Scanner scan = new Scanner(System.in);

System.out.println("Enter any Year:");

year = scan.nextInt();

scan.close();

boolean isLeap = false;

if (year % 4 == 0) {

if (year % 100 == 0) {

if (year % 400 == 0)

isLeap = true;

else

isLeap = false;

} else

isLeap = true;

} else {

isLeap = false;

}

if (isLeap == true)

System.out.println(year + " is a Leap Year.");

else

System.out.println(year + " is not a Leap Year.");

}

}

**Prime Number:**

package Assignment1;

public class PrimeNumbers {

public static void main(String[] args) {

int min = 0;

int max = 30;

for (int i = min; i <= max; i++) {

if (i == 0 || i == 1)

continue;

boolean flg = true;

for (int j = 2; j <= i / 2; j++) {

if (i % j == 0) {

flg = false;

break;

}

}

if (flg == true)

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

}

}

}

**Pyramid Triangle:**

package Assignment1;

public class PyramidTriangle {

public static void main(String args[])

{

System.out.println("Pyramid pattern of star in Java : ");

drawPyramidPattern();

}

public static void drawPyramidPattern()

{

for (int i = 0; i < 10; i++)

{

for (int j = 0; j < 10 - i; j++)

{

System.out.print(" ");

}

for (int k = 0; k <= i; k++)

{

System.out.print(" 0");

}

System.out.println();

}

}

}

Reverse Array:

package Assignment1;

import java.util.Scanner;

public class ReverseArray {

public static void main(String args[]) {

int counter, i = 0, j = 0, temp;

int number[] = new int[100];

Scanner scanner = new Scanner(System.in);

System.out.print("How many elements you want to enter: ");

counter = scanner.nextInt();

for (i = 0; i < counter; i++) {

System.out.print("Enter Array Element" + (i + 1) + ": ");

number[i] = scanner.nextInt();

}

j = i - 1;

i = 0;

scanner.close();

while (i < j) {

temp = number[i];

number[i] = number[j];

number[j] = temp;

i++;

j--;

}

System.out.print("Reversed array: ");

for (i = 0; i < counter; i++) {

System.out.print(number[i] + " ");

}

}

}

Sorting Array:

package Assignment1;

import java.util.Scanner;

public class SortingArray {

public static void main(String[] args) {

int count, temp;

Scanner scan = new Scanner(System.in);

System.out.print("Enter number of elements you want in the array: ");

count = scan.nextInt();

int num[] = new int[count];

System.out.println("Enter array elements:");

for (int i = 0; i < count; i++) {

num[i] = scan.nextInt();

}

scan.close();

for (int i = 0; i < count; i++) {

for (int j = i + 1; j < count; j++) {

if (num[i] > num[j]) {

temp = num[i];

num[i] = num[j];

num[j] = temp;

}

}

}

System.out.print("Array Elements in Ascending Order: ");

for (int i = 0; i < count - 1; i++) {

System.out.print(num[i] + ", ");

}

System.out.print(num[count - 1]);

}

}

**Sum of Natural Numbers:**

package Assignment1;

public class Sumofnaturalnumbers {

public static void main(String[] args) {

int num = 10, count = 1, total = 0;

while (count <= num) {

total = total + count;

count++;

}

System.out.println("Sum of first 10 natural numbers is: " + total);

}

}