**Java Program**

1. **Hello world:-**

Program:-

1. package date10may.practice;
2. public class HelloJava{
3. public static void main (String args[]){
4. System.***out***.println("Hello java..!");
5. }
6. }

Output:-

Hello java..!

1. **Sum of two:-**

Program1:-

package date10may.practice;

public class SumOfTwo {

int c;

void calculate(int a, int b) {

c = a + b;

System.***out***.println("Addition of: " + a + " + " + b + " =" + c);

}

public static void main(String args[]) {

SumOfTwo s = new SumOfTwo();

s.calculate(20, 50);

}

}

Output:-

Addition of: 20 + 50 =70

Program2:-

package date10may.practice;

import java.util.Scanner;

public class SumOfTwo2{

void display(){

int sum;

Scanner sc=new Scanner(System.***in***);

System.***out***.println("Enetr the First number: ");

int num1=sc.nextInt();

System.***out***.println("Enetr the Second number: ");

int num2=sc.nextInt();

sum=num1+num2;

System.***out***.println("Addition is: "+sum);

}

public static void main(String args[]){

SumOfTwo2 s=new SumOfTwo2();

s.display();

}

}

Output:-

Enetr the First number:

76

Enetr the Second number:

64

Addition is: 140

1. **Swap two numbers**
2. **Character is Vowel or Consonant.**
3. **Prime number:-**

Program:-

package date10may.practice;

import java.util.Scanner;

public class PrimeNumber {

public static void main(String args[]) {

String choice;

do {

Scanner sc = new Scanner(System.***in***);

System.***out***.println("Enter Any Number: ");

int num = sc.nextInt();

int count = 0;

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

if (num % i == 0) {

count++;

}

}

if (count == 2) {

System.***out***.println("Prime number");

} else {

System.***out***.println("Not Prime");

}

System.***out***.println("Do you Want to continue: (yes/no)");

choice = sc.next();

} while (choice.equalsIgnoreCase("yes"));

System.***out***.println("Successifully Executed....!");

}

}

Output:-

Enter Any Number:

1

Not Prime

Do you Want to continue: (yes/no)

yes

Enter Any Number:

11

Prime number

Do you Want to continue: (yes/no)

no

Successifully Executed....!

1. **Even odd:-**

Program:-

package date10may.practice;

import java.util.Scanner;

public class EvenOdd{

void evenodd(){

Scanner sc=new Scanner(System.***in***);

int num=sc.nextInt();

if(num%2==0){

System.***out***.println("Even Number: "+num);

}else{

System.***out***.println("Odd Number: "+num);

}

}

public static void main(String args[]){

EvenOdd e=new EvenOdd();

e.evenodd();

}

}

Output:-

Enter any number:

1

Odd Number: 1

Do you want to continue: (yes/no)

yes

Enter any number:

3

Odd Number: 3

Do you want to continue: (yes/no)

n

Successfully Executed...!

Program2:-

1. package date10may.practice;
2. import java.util.Scanner;
3. public class EvenOdd2 {
4. public static void main(String args[]) {
5. Scanner sc = new Scanner(System.***in***);
6. System.***out***.println("Enter number: ");
7. int num = sc.nextInt();
8. System.***out***.println("Even numbers: ");
9. for (int i = 0; i <= num; i++) {
10. if (i % 2 == 0) {
11. System.***out***.println( i);
12. }
13. }
14. System.***out***.println("Odd number: ");
15. for (int i = 0; i <= num; i++) {
16. if (i % 2 != 0) {
17. System.***out***.println(i);
18. }
19. }
20. }
21. }

Output:-

Enter number:

15

Even numbers:

0

2

4

6

8

10

12

14

Odd number:

1

3

5

7

9

11

13

15

1. **Factorial.**

Program:-

package date10may.practice;

import java.util.Scanner;

public class Factorial {

void display() {

int fact=1;

String ch;

do {

Scanner sc=new Scanner(System.***in***);

System.***out***.print("Enter number: ");

int num=sc.nextInt();

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

fact=fact\*i;

}

System.***out***.println(fact);

fact=1;//reset fact

System.***out***.println("Do you want to continue:(y/n)");

ch=sc.next();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Successfully Executed...!");

}

public static void main(String[] args) {

Factorial f=new Factorial();

f.display();

}

}

Output:-

Enter number: 5

120

Do you want to continue:(y/n)

y

Enter number: 10

3628800

Do you want to continue:(y/n)

n

Successfully Executed...!

1. **Palindrome.**

Program:-String Palindrome

package date10may.practice;

import java.util.Scanner;

public class StringPalindrome {

public static void main(String[] args) {

String ch;

do {

Scanner sc=new Scanner (System.***in***);

System.***out***.println("Enter any String: ");

String s=sc.nextLine();

String rev="";

for(int i=(s.length())-1;i>=0;i--) {

rev=rev+s.charAt(i);

}

if (s.toLowerCase().equals(rev.toLowerCase())) {

System.***out***.println("String is palindrome");

}else {

System.***out***.println("String not palindrome");

}

System.***out***.println("Do you want to continue: (y/n)");

ch=sc.nextLine();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Executed Successfully...!");

}

}

Output:-

Enter any String:

nitin

String is palindrome

Do you want to continue: (y/n)

y

Enter any String:

Rasika

String not palindrome

Do you want to continue: (y/n)

y

Enter any String:

Radar

String is palindrome

Do you want to continue: (y/n)

n

Executed Successfully...!

Program2:-Number Palindrome:-

package date10may.practice;

import java.util.Scanner;

public class NumberPalindrome {

public static void main(String[] args) {

String ch;

do {

int rev=0;

int rem;

Scanner sc=new Scanner (System.***in***);

System.***out***.println("Enter any number: ");

int num=sc.nextInt();

int temp=num;

while(num>0) {

rem=num%10;

rev=rev\*10+rem;

num=num/10;

}

if(temp==rev) {

System.***out***.println("Palindrom number");

}else {

System.***out***.println("Not Palindrome");

}

System.***out***.println("Do you want to continue:(y/n)");

ch=sc.next();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Executed Successfully...!");

}

}

Outpute:-

Enter any number:

123321

Palindrom number

Do you want to continue:(y/n)

y

Enter any number:

123

Not Palindrome

Do you want to continue:(y/n)

n

Executed Successfully...!

1. **Fibonacci Series.**

Program:-

package date10may.practice;

import java.util.Scanner;

public class Fibonacci {

public static void main(String[] args) {

int n1=0,n2=1,n3;

Scanner sc=new Scanner(System.***in***);

System.***out***.println("Enter the number: ");

int num=sc.nextInt();

System.***out***.print(n1+" "+n2);

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

n3=n1+n2;

n1=n2;

n2=n3;

System.***out***.print(" "+n3);

}

}

}

Output:-

Enter the number:

5

01 1 2 4 8

1. **Reverse Number.**

Program:-

package date10may.practice;

import java.util.Scanner;

public class ReverseNumber {

public static void main(String[] args) {

int rev=0;

int rem;

int count=0;

String ch;

do {

Scanner sc=new Scanner(System.***in***);

System.***out***.println("Enter any number: ");

int num=sc.nextInt();

while(num>0) {

rem=num%10;

rev=rev\*10+rem;

num=num/10;

count++;

}

System.***out***.println("Reverse Number: "+rev);

System.***out***.println("Count of numbers: "+count);

rev=0;

count=0;

System.***out***.println("Do you want to continue:(y/n)");

ch=sc.next();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Executed Successfully...!");

}

}

Output:-

Enter any number:

123456

Reverse Number: 654321

Count of numbers: 6

Do you want to continue:(y/n)

y

Enter any number:

123123

Reverse Number: 321321

Count of numbers: 6

Do you want to continue:(y/n)

n

Executed Successfully...!

Program 2:-

package date8may.practice;

import java.util.Scanner;

public class ReverseNumber2 {

public static void main(String[] args) {

Scanner sc=new Scanner (System.***in***);

String choice;

do {

int rem;

int rev = 0;

System.***out***.println("Enter a number:");

int num=sc.nextInt();

if(num<0) {

while(num<0) {

num\*=-1;

rem=num%10;

rev=rev\*10+rem;

num=num/10;

num\*=-1;

}

rev\*=-1;

System.***out***.println(rev);

}else {

while(num>0) {

rem=num%10;

rev=rev\*10+rem;

num=num/10;

}

System.***out***.println(rev);

}

System.***out***.println("Do you want to continue? (yes/no): ");

choice = sc.next();

if (choice.equalsIgnoreCase("no")) {

System.***out***.println("Exiting the program. Goodbye!");

break; // Exit the loop

}

continue;

} while (true);

}

}

Output:-

Enter a number:

13579

97531

Do you want to continue? (yes/no):

yes

Enter a number:

24680

8642

Do you want to continue? (yes/no):

no

Exiting the program. Goodbye!

1. **Leap Year.**

Program:-

package date10may.practice;

import java.util.Scanner;

public class LeapYear {

public static void main(String[] args) {

String ch;

do {

Scanner sc=new Scanner(System.***in***);

System.***out***.println("Enter any year: ");

int year=sc.nextInt();

if(year%4==0 && year%100!=0 || year%400==0) {

System.***out***.println("Leap Year");

}else {

System.***out***.println("Not Leap Year");

}

System.***out***.println("Do you want to continue:(y/n)");

ch=sc.next();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Successfully Executed...!");

}

}

Output:-

Enter any year:

2012

Leap Year

Do you want to continue:(y/n)

y

Enter any year:

2015

Not Leap Year

Do you want to continue:(y/n)

y

Enter any year:

202020

Leap Year

Do you want to continue:(y/n)

n

Successfully Executed...!

Program 2:-

package date10may.practice;

import java.util.Scanner;

public class LeapYear2 {

public static void main(String[] args) {

String ch;

do {

Scanner sc=new Scanner(System.***in***);

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

int year=sc.nextInt();

if(*isLeapYear*(year)) {

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

}else {

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

}

System.***out***.println("Do you want to continue(y/n)");

ch=sc.next();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Successfully done...!");

}

public static boolean isLeapYear(int year) {

// A year is a leap year if it is divisible by 4 but not divisible by 100,

// or if it is divisible by 400.

return year%4==0 && year%100!=0 || year%400==0;

}

}

Output:-

Enter any Year:

2012

2012 is Leap Year

Do you want to continue(y/n)

y

Enter any Year:

2015

2015 is not Leap Year

Do you want to continue(y/n)

y

Enter any Year:

2020

2020 is Leap Year

Do you want to continue(y/n)

y

Enter any Year:

5050

5050 is not Leap Year

Do you want to continue(y/n)

n

Successfully done...!

1. **Armstrong or not.**
2. **Duck number or not.**
3. **Array Operation.**
4. **Merge two arrays.**
5. **Find largest element in an array.**
6. **Find smallest element in an array.**
7. **Copy of array content a[] into b[].**
8. **Sum of all elements in array.**
9. **Reverse a given array.**
10. **String Operation.**
11. **Frequency of given character in string.**
12. **String Revers.**

Program:-

package date10may.practice;

public class Palindrome {

public static void main(String[] args) {

String s="Rasika";

String rev="";

for(int i=s.length()-1;i>=0;i--) {

rev=rev+s.charAt(i);

}

System.***out***.println("Original String: "+s);

System.***out***.println("Reverse String: "+rev);

}

}

Output:-

Original String: Rasika

Reverse String: akisaR

Program2:-

package date10may.practice;

import java.util.Scanner;

public class StringReverse2 {

public static void main(String[] args) {

String ch;

do {

Scanner sc=new Scanner(System.***in***);

System.***out***.println("Enter Any String: ");

String name=sc.nextLine();

String rev="";

for(int i=name.length()-1;i>=0;i--) {

rev=rev+name.charAt(i);

}

System.***out***.println("Original String: "+name);

System.***out***.println("reverse String: "+rev);

System.***out***.println("Do you want to Continue:(y/n)");

ch=sc.next();

}while(ch.equalsIgnoreCase("y"));

System.***out***.println("Successfully Executed...!");

}

}

Output:-

Enter Any String:

hii

Original String: hii

reverse String: iih

Do you want to Continue:(y/n)

y

Enter Any String:

hello rasika

Original String: hello rasika

reverse String: akisar olleh

Do you want to Continue:(y/n)

n

Successfully Executed...!

1. File Handling.