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JAVA PRACTICE

1. **Fibonacci Series in Java**

**PROGRAM:**

import java.util.Scanner;

public class Fibonacci {

public static void main (String[]args) {

Scanner sc = new Scanner (System.in);

int n1=sc.nextInt();

int n2=sc.nextInt();

int count=10;

int n3;

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

n3 = n1+n2;

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

n1= n2;

n2 =n3;

}

}

}

**OUTPUT:**

1 2 3 5 8 13 21 34 55 89 144

1. **Prime Number Program in Java**

**PROGRAM:**

import java.util.Scanner;

public class prime{

public static void main(String args[]){

int i, n, a = 0;

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

Scanner sc = new Scanner(System.in);

n = sc.nextInt();

for( i = 2; i < n; i++) {

if(n % i == 0) {

a = 0;

break;

}

else

{

a = 1;

}

}

if(a == 1){

System.out.println("prime number");

}

else {

System.out.println("not a prime number");

}

}

}

**OUTPUT:**

Enter the number :5

prime number

1. **Palindrome Program in Java**

**PROGRAM:**

**Number:**

import java.util.Scanner;

public class palindrome {

public static void main(String[] args){

Scanner sc = new Scanner (System.in);

int r,n,sum=0,temp;

System.out.print("Enter the Number:");

n=sc.nextInt();

temp=n;

while(n>0)

{

r=n%10;

sum=(sum\*10)+r;

n=n/10;

}

if(temp==sum)

System.out.println("palindrome number ");

else

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

}

}

**OUTPUT:**

Enter the Number: 12

not palindrome

Enter the Number: 3

palindrome number

**PROGRAM:**

**STRING:**

import java.util.\*;

public class palindromestring {

public static void main(String[] args) {

Scanner sc=new Scanner(System.in);

String str=sc.nextLine();

String rev=" ";

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

char c=str.charAt(i);

rev+=c;

}

if(str.equals(rev)){

System.out.print("palindrome");

return;

}

else{

System.out.print("not a paindrome");

}

}

}

**OUTPUT:**

priya

not a paindrome

madam

palindrome

1. **Factorial Program in Java**

**PROGRAM:**

import java.util.Scanner;

public class factorial {

public static void main(String [] args) {

Scanner sc = new Scanner (System.in);

int n , i , j =1,r;

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

n = sc.nextInt();

for ( i=n;i>0;i--){

r=i\*j;

j=r;

}

System.out.print("Factorial is: "+j);

}

}

**OUTPUT:**

Enter the number:

5

Factorial is: 120

1. **Armstrong Number in Java**

**PROGRAM:**

import java.util.\*;

public class armstrong{

public static void main(String args[]){

Scanner sc=new Scanner(System.in);

System.out.print("Enter a Number:");

int n=sc.nextInt();

int orginalnum,rem,res=0;

orginalnum=n;

while(orginalnum!=0)

{

rem=orginalnum%10;

res+=Math.pow(rem,3);

orginalnum/=10;

}

if(res==n)

System.out.println("Armstrong Number:"+n);

else

System.out.println("Not an Armstrong Number:"+n);

}

}

**OUTPUT:**

Enter a Number:5

Not an Armstrong Number:5

Enter a Number:153

Armstrong Number:153

1. **How to Generate Random Number in Java**

**PROGRAM:**

import java.util.\*;

class RandomNumber{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

int n=s.nextInt();

System.out.println(Math.random());

}

}

**OUTPUT:**

20

0.08508227736778062

1. **How to Print Pattern in Java**

**PROGRAM:**

import java.util.Scanner;

public class pattern {

public static void main(String[] args) {

Scanner sc= new Scanner (System.in);

System.out.println("Enter the value:");

int n= sc.nextInt();

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

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

System.out.print("\* ");

}

System.out.println(" ");

}

}

}

OUTPUT:

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

**8) How to Compare Two Objects in Java**

**PROGRAM:**

import java.util.Scanner;

public class compare {

public static void main (String [] args){

Scanner sc = new Scanner (System.in);

System.out.println("Enter the first string:");

String str1= sc.nextLine();

System.out.println("Enter the second string:");

String str2= sc.nextLine();

if (str1.equals(str2)){

System.out.println("same object");

}

else {

System.out.println("different object");

}

}

}

**OUTPUT:**

Enter the first string:

priya

Enter the second string:

priya

same object

Enter the first string:

priya

Enter the second string:

dharshini

different object

**9) How to Create Object in Java**

**PROGRAM:**

import java.util.\*;

class Object{

public static void main(String args[]){

Scanner s=new Scanner(System.in);

System.out.println("Enter a String:");

String str=s.nextLine();

System.out.println(str);

}

}

**OUTPUT:**

Enter a String:

priya

priya

**10) How to Print ASCII Value in Java**

**PROGRAM:**

public class asciivalue {

public static void main (String [] args){

int char1 = 'a';

int char2 = 'b';

System.out.println("ASCII value of a is : " +char1);

System.out.println("ASCII value of b is : " +char2);

}

}

**OUTPUT:**

ASCII value of a is : 97

ASCII value of b is : 98