Program1: To display a message

Class first

{

Public static void main(String args[])

{

System.out.println(“welcome to java”);

}

}

Program2: program to display user data

**publicclass** program1 {

**publicstaticvoid** main(String args[])

{

**int** rollno=10;

String name="tts";

**double** salary=2500.25;

System.*out*.println("welcome to sylix");

System.*out*.println("RollNO"+rollno);

System.*out*.println("welcome to sylix\t"+name);

System.*out*.println("welcome to sylix\t"+salary);

}}

**Program3: write a program to find sum of two numbers**

**publicclass** program3 {

**public static void** main(String[] args) {

//store values into variables

**int** x=10;

**int** y=25;

//calculate sum and store result into z

**int** z=x+y;

//display result

System.*out*.println(z);

} }

**Program4: write a program to find area of rectangle**

**publicclass** program4 {

**publicstaticvoid** main(String[] args) {

**float** area,length,breath;

length=(**float**) 25.55;

breath=(**float**) 20.55;

area=length\*breath;

System.*out*.println("the length value\t"+length+"\nthe breath value\ts"+breath);

System.*out*.println("\n the rectangle area\t"+area);

}

}

Program5:simple if \_else program

**publicclass** program5 {

**publicstaticvoid** main(String[] args) {

**int** mark=50;

**if**(mark>75)

{

System.*out*.println("pass\t"+mark);

}

**Elseif**(mark==50)

{

System.*out*.println("fail");

}

**else**

{

System.*out*.println("average");

}

}}

Program6: To display numbers from 1 to 10 using do\_while

**publicclass** program6 {

**publicstaticvoid** main(String[] args) {

**int** x=1;

**do**

{

System.*out*.println(x);

x++;

} **while(x<=10);**

} }

Program7: To display numbers from 1 to 10 using while loop

**publicclass** program7 {

**publicstaticvoid** main(String[] args) {

**int** x=1;

**while**(x<=10)

{

System.*out*.println(x);

x++;

}

}

}

Program8: To display numbers from 1 to 10 using while loop

**publicclass** program8 {

**publicstaticvoid** main(String[] args) {

**for**(**int** x=1;x<=10;x++)

{

System.*out*.println(x);

}

}}

Program09: To find a factorial value of number 5

**publicclass** program9 {

**publicstaticvoid** main(String[] args) {

**int** f=1;

**int** n=5;//

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

{

f=f\*i;

System.*out*.println(+n+"!="+f);

}

}

}

Program10: To print even and odd numbers using for loop

**publicclass** program10 {

**publicstaticvoid** main(String[] args) {

**for**(**int** i=0;i<=10;i+=2)//to print even number

{

System.*out*.println("even number:"+i);

}

**for**(**int** i=1;i<=10;i+=2)// to print odd number

{

System.*out*.println("odd number:"+i);

}

}

}

Program11: To display numbers from 1 to 10 using infinite for loop

**publicclass** program11 {

**publicstaticvoid** main(String[] args) {

**int** x=1;

**for**(; ;)

{

System.*out*.println(x);

x++;

**if**(x>10)//if x value exceeds 10 then come out of the loop

**break**;

} } }

Program12: To display stars in triangular form

**publicstaticvoid** main(String[] args) {

**int** r=5;

**for**(**int** i=1;i<=r;i++)

{

**for**(**int** st=1; st<=i;st++)

{

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

}

System.*out*.println();

}

}}

**//program to demo 5 and 10 table**

**publicclass** program4 {

**publicstaticvoid** main(String[] args) {

**for**(**int** i=1;i<=5;i++)//five table

{

System.*out*.println(i+"\*5="+(i\*5));

}

**for**(**int** i=1;i<=10;i++)//ten table

{

System.*out*.println(i+"\*10="+(i\*10));

}

}

}

**Program: to print fibonacci series using for loop**

public class JavaExample {

public static void main(String[] args) {

int count = 7, num1 = 0, num2 = 1;

System.out.print("Fibonacci Series of "+count+" numbers:");

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

{

System.out.print(num1+" ");

/\* On each iteration, we are assigning second number

\* to the first number and assigning the sum of last two

\* numbers to the second number

\*/

int sumOfPrevTwo = num1 + num2;

num1 = num2;

num2 = sumOfPrevTwo;

}

}

}

**Program:**

**Program to check whether input number is prime or not**

class PrimeCheck

{

public static void main(String args[])

{

int temp;

boolean isPrime=true;

Scanner scan= new Scanner(System.in);

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

//capture the input in an integer

int num=scan.nextInt();

scan.close();

for(int i=2;i<=num/2;i++)

{

temp=num%i;

if(temp==0)

{

isPrime=false;

break;

}

}

//If isPrime is true then the number is prime else not

if(isPrime)

System.out.println(num + " is a Prime Number");

else

System.out.println(num + " is not a Prime Number");

}

}

**Program:Palindrome**

1. **class** PalindromeExample{
2. **public** **static** **void** main(String args[]){
3. **int** r,sum=0,temp;
4. **int** n=454;//It is the number variable to be checked for palindrome
6. temp=n;
7. **while**(n>0){
8. r=n%10;  //getting remainder
9. sum=(sum\*10)+r;
10. n=n/10;
11. }
12. **if**(temp==sum)
13. System.out.println("palindrome number ");
14. **else**
15. System.out.println("not palindrome");
16. }
17. }
18. **import** java.util.\*;
19. **class** PalindromeExample2
20. {
21. **public** **static** **void** main(String args[])
22. {
23. String original, reverse = ""; // Objects of String class
24. Scanner in = **new** Scanner(System.in);
25. System.out.println("Enter a string/number to check if it is a palindrome");
26. original = in.nextLine();
27. **int** length = original.length();
28. **for** ( **int** i = length - 1; i >= 0; i-- )
29. reverse = reverse + original.charAt(i);
30. **if** (original.equals(reverse))
31. System.out.println("Entered string/number is a palindrome.");
32. **else**
33. System.out.println("Entered string/number isn't a palindrome.");
34. }
35. }

**Program:Reverse a number:**

class ReverseNumberDemo

{

public static void main(String args[])

{

int num=123456789;

int reversenum =0;

while( num != 0 )

{

reversenum = reversenum \* 10;

reversenum = reversenum + num%10;

num = num/10;

}

System.out.println("Reverse of specified number is: "+reversenum);

}

}

**Example 1: Finding largest of three numbers using if-else..if**

public class JavaExample{

public static void main(String[] args) {

int num1 = 10, num2 = 20, num3 = 7;

if( num1 >= num2 && num1 >= num3)

System.out.println(num1+" is the largest Number");

else if (num2 >= num1 && num2 >= num3)

System.out.println(num2+" is the largest Number");

else

System.out.println(num3+" is the largest Number");

}

}

**Program to generate random numbers**

import java.util.\*;

class GenerateRandomNumber {

public static void main(String[] args) {

int counter;

Random rnum = new Random();

/\* Below code would generate 5 random numbers

\* between 0 and 200.

\*/

System.out.println("Random Numbers:");

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

for (counter = 1; counter <= 5; counter++) {

System.out.println(rnum.nextInt(200));

}

}

}

**Program to display first n prime numbers**

**import java.util.Scanner;**

**class PrimeNumberDemo**

**{**

**public static void main(String args[])**

**{**

**int n;**

**int status = 1;**

**int num = 3;**

**//For capturing the value of n**

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

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

**//The entered value is stored in the var n**

**n = scanner.nextInt();**

**if (n >= 1)**

**{**

**System.out.println("First "+n+" prime numbers are:");**

**//2 is a known prime number**

**System.out.println(2);**

**}**

**for ( int i = 2 ; i <=n ; )**

**{**

**for ( int j = 2 ; j <= Math.sqrt(num) ; j++ )**

**{**

**if ( num%j == 0 )**

**{**

**status = 0;**

**break;**

**}**

**}**

**if ( status != 0 )**

**{**

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

**i++;**

**}**

**status = 1;**

**num++;**

**}**

**}**

**}**

**Program to display first 100 prime numbers  
To display the first 100 prime numbers, you can either enter n value as 100 in the above program OR write a program like this:**

**class PrimeNumberDemo**

**{**

**public static void main(String args[])**

**{**

**int n;**

**int status = 1;**

**int num = 3;**

**System.out.println("First 100 prime numbers are:");**

**System.out.println(2);**

**for ( int i = 2 ; i <=100 ; )**

**{**

**for ( int j = 2 ; j <= Math.sqrt(num) ; j++ )**

**{**

**if ( num%j == 0 )**

**{**

**status = 0;**

**break;**

**}**

**}**

**if ( status != 0 )**

**{**

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

**i++;**

**}**

**status = 1;**

**num++;**

**}**

**}**

**}**