1.Prime Number

public static void main(String[] args) {

// TODO Auto-generated method stub

int temp, num;

boolean isPrime = true;

Scanner in = new Scanner(System.in);

num = in.nextInt();

in.close();

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

temp = num%i;

if (temp == 0) {

isPrime = false;

break;

}

}

if(isPrime)

System.out.println(num + "number is prime");

else

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

}

2.Factorial

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

{

**int** number=5;

**int** fact=1;

**for**(**int** i=1;i<=number;i++) {

fact=fact\*i;

}

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

}

3.Factorial using recursive method

**public** **class** Demo {

**static** **int** factorial(**int** number)

{ **if**(number==0)

**return** 1;

**return** number\**factorial*(number-1);

}

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

{

**int** num=5;

**int** fact=*factorial*(num);

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

}

}

4.Armstrong Number

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

{

**int** c=0,temp,n=153,a;

temp=n;

**while**(n>0) {

a=n%10;

n=n/10;

c=c+(a\*a\*a);

}

**if**(temp==c) {

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

}**else** {

System.***out***.println("No");

}

}

5.fibonacci series

Public static void main(String[] args){

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

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

**int** mun=sc.nextInt();

**int** a=0,b=0,c=1;

**for**(**int** i=0;b<=mun;i++) {

a=b;

b=c;

c=a+b;

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

}

}

6. reverse string without using reverse method

public static void main(String[] args) {

String str = "Saket Saurav";

char chars[] = str.toCharArray(); // converted to character array and printed in reverse order

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

System.out.print(chars[i]);

}

}

Ans two

String s="JavaProgramming";

char[] ca=s.toCharArray();

System.out.println(ca[4]);

int length=s.length();

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

System.out.print(s.charAt(i));

}

Ans 3

//use split("") and split(" ") with space it will insert string in array as a single character or as a word

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

// System.out.println("Enter string");

// String str=sc.nextLine();

// System.out.println(str);

// String[] str1=str.split("");

// System.out.println(str1.length);

// for(int i=str1.length-1;i>=0;i--) {

// System.out.print(str1[i]);

// }

**Notes:-Split(“”) will split string by character and split(“ “) will split string by words.**

**7. Duplicate characters in a string**

public static void main(String[] args) {

// TODO Auto-generated method stub

String str = new String("Sakkett");

int count = 0;

char[] chars = str.toCharArray();

System.out.println("Duplicate characters are:");

for (int i=0; i<str.length();i++) {

for(int j=i+1; j<str.length();j++) {

if (chars[i] == chars[j]) {

System.out.println(chars[j]);

count++;

break;

}

}

}

}

**8. Second largest number**

public static void main(String[] args) {

                   int arr[] = { 14, 46, 47, 45, 92, 52, 48, 36, 66, 85 };

                   int largest = arr[0];

                   int secondLargest = arr[0];

                   System.out.println("The given array is:" );

                   for (int i = 0; i < arr.length; i++) {

                             System.out.print(arr[i]+"\t");

                   }

                   for (int i = 0; i < arr.length; i++) {

if (arr[i] > largest) {

                                      secondLargest = largest;

                                      largest = arr[i];

                             } else if (arr[i] > secondLargest) {

                                      secondLargest = arr[i];

                             }

                   }

                   System.out.println("\nSecond largest number is:" + secondLargest);

          }

**9. Armstrong number**

public static void main(String[] args) {

int c=0,a,temp;

int n=153;//It is the number to check Armstrong

temp=n;

while(n>0)

{

a=n%10;

n=n/10;

c=c+(a\*a\*a);

}

if(temp==c)

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

else

System.out.println("Not armstrong number");

}

**10. remove all spaces from string**

public static void main(String[] args)

{

String str1 = "Saket Saurav is a QualityAna list";

//1. Using replaceAll() Method

String str2 = str1.replaceAll("\\s", "");

System.out.println(str2);

}

}