**import** java.util.Scanner;

**public** **class** Sample {

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

{

Sample obj=**new** Sample();

//obj.sumOfGiven();

//obj.oddOrEven();

//obj.primeNumber();

//obj.Fibon();

//obj.fact();

obj.tables();

}

// Fibonacci number is sum if the two preceding ones

// 0,1,2,3,5,8,13

**public** **void** Fibon()

{

System.***out***.print( "please enter number for fibonacci : ");

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

**int** number=input.nextInt();

System.***out***.println("you entered : " + number);

**int** num1=0;

**int** num2=1;

**int** num3;

System.***out***.print(num1+" "+num2);

**for**(**int** i=0;i<number;i++)

{

num3=num1+num2;

System.***out***.print(" "+num3);

num1=num2;

num2=num3;

}

}

// factorial number

// 5 ! = 5\*4\*3\*2\*1 =120

**public** **void** fact()

{

System.***out***.print( "please enter number for factorial : ");

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

**int** number=input.nextInt();

System.***out***.println("you entered : " + number);

**int** fnum=1;

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

{

fnum=fnum\*i;

}

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

}

// prime number

**public** **void** primeNumber()

{

System.***out***.print("enter a number to find prime number :");

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

**int** number=input.nextInt();

input.close();

**int** temp;

**boolean** isprime=**true**;

**for**(**int** i=2;i<=number/2;i++)

{

temp=number%i;

**if**(temp==0)

{

isprime=**false**;

**break**;

}

}

**if**(isprime)

System.***out***.println( number + " is a prime numer ");

**else**

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

}

// even number reminder will be 0 and odd number reminder is 1

**public** **void** oddOrEven()

{

System.***out***.println("enter a number to find odd or even number :");

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

**int** number=input.nextInt();

**if**(number%2==0)

{

System.***out***.println("entered number is even " + number);

}

**else**

{

System.***out***.println("entered number is odd " + number);

}

}

// sum of the given number

**public** **void** sumOfGiven()

{

System.***out***.println( "please enter the number to sum up : ");

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

**int** enteredNumber=input.nextInt();

System.***out***.println(" you have entered : " + enteredNumber);

**int** sum=0;

**int** j=0;

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

{

j=i;

sum=sum+j;

}

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

}

// tables

**public** **void** tables()

{

System.***out***.println( "please enter the number for times table : ");

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

**int** enteredNumber=input.nextInt();

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

{

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

}

}

}