Java Warm up programs

1. **To print number is even or odd**

Input : 10

output: even

**import** java.util.Scanner;

**class** checkEvenOdd{

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

System.***out***.println("check if number is even or odd\n");

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

System.***out***.println("Enter non decimal number\n");

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

**if**(n%2==0){

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

}

**else**{

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

}

}

}

1. **To print number is divisible by 7 or not**

Input : 41

output: No

**class** divisibleBy7{

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

{

System.***out***.println("Check if number is divisible by 7 or not");

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

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

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

**if**(n%7==0){

System.***out***.println(n+" is divisble by 7");

}

**else**{

System.***out***.println(n+" is not divisble by 7");

}

}

}

1. **Print area of rectangle**

Input : 12 5

output: 60

**class** areaOfRectangle{

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

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

System.***out***.print("Enter length of rectangle from keyboard\n");

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

System.***out***.print("Enter breadth of rectangle from keyboard\n");

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

System.***out***.println("Area of rectangle = " +l\*b);

}

}

1. **print cube of a number**

input : 4

output : 64

**import** java.util.Scanner;

**class** cubeOfNumber{

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

**int** mult=1;

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

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

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

System.***out***.println("Enter power on number");

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

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

mult=mult\*num;

}

System.***out***.println("Result = " +mult);

}

}

1. **print Fibonacci number up to n**

input: 5

output: 1 1 2 3 5

**import** java.util.Scanner;

**class** fibonacci {

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

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

**int** t1 = 0, t2 = 1;

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

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

System.***out***.print("First " + n + " terms: ");

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

{

**int** sum = t1 + t2;

t1 = t2;

System.***out***.print(t1+" ");

t2 = sum;

}

}

}

1. **find given number is prime or not**

input : 7

output: Yes

**class** primeCheck{

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

**boolean** flag=**true**;

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

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

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

**int** middle= num/2;

**if**(num==0||num==1){

System.***out***.println("no prime number");

}

**else**{

**for**(**int** i=2;i<=middle; i++){

**if**(num%i==0){

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

flag=**false**;

**break**;

}

}

**if**(flag==**true**){System.***out***.println("Prime Number");}

}

}

}

1. **find HFC and LCM of two numbers m and n**

input : 12 18

output: 6

36

**import** java.util.Scanner;

**public** **class** lcmHcf{

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

**int** temp1, temp2, num1, num2, temp, hcf, lcm;

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

System.***out***.print("Enter First Number: ");

num1 = scanner.nextInt();

System.***out***.print("Enter Second Number: ");

num2 = scanner.nextInt();

temp1 = num1;

temp2 = num2;

**while**(temp2 != 0){

temp = temp2;

temp2 = temp1%temp2;

temp1 = temp;

}

hcf = temp1;

lcm = (num1\*num2)/hcf;

System.***out***.println("HCF of input numbers: "+hcf);

System.***out***.println("LCM of input numbers: "+lcm);

}

}

1. **print n odd numbers**

for Odd 🡪 input : 7

output : 1

3

5

7

9

11

13

**import** java.util.Scanner;

**class** printOddSeries{

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

**int** start=1;

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

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

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

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

System.***out***.println(start+ " ");

start = start+2;

}

}

}

1. **print even number from starting from n to 2**

input : 10

output: 10

8

6

4

2

**import** java.util.Scanner;

**class** printEvenSeriesFromNto2{

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

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

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

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

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

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

**while**(start>=end){

System.***out***.println(start+ "");

start=start-2;

}

}

}

1. **print n numbers which is divisible by m and number should start from m**

input : n = 4, m = 9

output: 9

18

27

36

**import** java.util.Scanner;

**class** PrintNNumbersDivisibleByM{

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

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

System.***out***.println("Enter the number to get the table");

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

System.***out***.println("Enter the number of term you wish to get");

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

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

**int** result=m\*i;

System.***out***.println(result + "\n");

}

}

}

1. **find the sum of first n natural numbers**

input : 6

output: 21

**import** java.util.Scanner;

**class** SumOfFirstNNaturalNumber{

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

System.***out***.println("====Sum Of First Nth Natural Number=====");

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

System.***out***.println("Enter number of term ");

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

**int** sum = 0;

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

sum = sum+i;

}

System.***out***.println("Sum of first "+n+ " term = " +sum);

}

}

1. **print odd number between two number n and m where n < m**

input : n = 4 m=12

output: 5

7

11

**import** java.util.Scanner;

**class** OddnumberBetNum{

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

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

System.***out***.println("Enter First Number");

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

System.***out***.println("Enter second Number");

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

**for**(**int** i=n; i<=m; i++){

**if**(i%2!=0){

System.***out***.println(i+ "");

}

}

}

}