1. Find first n prime numbers ( n < 999999999)

Input : 5

Output : 2

  3

  5

  7

  11

**import** java.util.Scanner;

**class** firstNPrimeNo{

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

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

System.***out***.println("Enter number less than 999999999");

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

**if**(num>=999999999 || num <1) {

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

}

**else** {

**int** count = 0;

**for** (**int** i=2;i<=999999999;i++) {

**if**(*primeCheck*(i)) {

count++;

**if**(count == num) {

**break**;

}

}

}

}

}

**public** **static** **boolean** primeCheck(**int** n) {

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

**for**(**int** j=2;j<=n/2;j++) {

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

flag = **false**;

}

}

**if**(flag==**true**) {

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

flag = **true**;

}

**return** flag;

}

}

1. Write the table of n (n < 999999999)

Input : 20

Output : 20 \* 1 = 20

20 \* 2 = 40

20 \* 3 = 60

…………

20 \* 10 = 200

**import** java.util.Scanner;

**public** **class** printTable {

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

// **TODO** Auto-generated method stub

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

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

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

**if**(n>=999999999) {

System.***out***.println("Invalid Number");

}

**else** {

*callTable*(n);

}

}

**public** **static** **void** callTable(**int** num) {

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

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

}

}

}

1. Write a mini calculator with function : add, subtract, Multiply, divide

After running progra it should give following output and ask for input :-

Welcome to Mini Calculator.

Press   1 : Add

 2: Subtract

 3: Multiply

 4: Divide

Cursor should wait for user input

Suppose user gives : 1

Then Program should print

Enter 2 number for Addition : 4 5

9

Again Program should give

Welcome to Mini Calculator.

Press   1 : Add

 2: Subtract

 3: Multiply

 4: Divide

**package** com.onlineClass.warmup;

**import** java.util.Scanner;

**public** **class** miniCalulator {

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

// **TODO** Auto-generated method stub

miniCalulator mc = **new** miniCalulator();

mc.pressNumber();

}

**public** **void** pressNumber() {

System.***out***.println("Welcome to Mini Calculator");

System.***out***.println("Press\n 1 FOR ADD\n 2 FOR SUBSTRACT\n 3 FOR MULTIPLY\n 4 FOR DIVIDE");

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

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

operation(optr);

}

**public** **void** operation(**int** optr) {

**if**(optr==0) {

System.***out***.println("Calculator power off. Please Restart the Calculation");

System.*exit*(0);

}**else** **if**(optr>4 || optr<0) {

System.***out***.println("INVALID PRESS. PLEASE PRESS AGAIN");

pressNumber();

}**else** {

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

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

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

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

**if**(optr==1) {

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

pressNumber();

}**else** **if**(optr==2) {

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

pressNumber();

}**else** **if**(optr==3) {

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

pressNumber();

}**else** **if**(optr==4) {

**float** result = a/b;

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

pressNumber();

}

}

}

}

Array :

1. to print the largest element in an array

Input : 12,4,9,-1,18,4 // this is an array

Output : 18

1. to print the smallest element in an array

Input : 12,4,9,-1,18,4 // this is an array

Output : -1

**import** java.util.Scanner;

**public** **class** printLargestNumbetFromArray {

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

**int** max = 0;

**int** min = 0;

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

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

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

**int** n[] = **new** **int**[term];

System.***out***.println("Enter values for all terms");

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

n[i]= sc.nextInt();

**if**(max<n[i]) {

max = n[i];

}

**if**(min>n[i]) {

min = n[i];

}

}

System.***out***.println("largest number = "+max);

System.***out***.println("Smallest number = "+min);

}

}

1. to print the sum of all the items of the array

**import** java.util.Scanner;

**public** **class** sumOfArrayElement {

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

**int** sum = 0;

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

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

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

**int** n[] = **new** **int**[term];

System.***out***.println("Enter values for all terms");

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

n[i]= sc.nextInt();

sum=sum+n[i];

}

System.***out***.println("sum of all element in Array = "+sum);

}

}

1. Write a program to print following pattern

Input : 4

Output: 1

 22

 333

 4444

**import** java.util.Scanner;

**public** **class** printPatterNumeric1 {

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

// **TODO** Auto-generated method stub

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

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

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

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

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

System.***out***.print(i);

}

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

}

}

}

1. Write a program to print following pattern:-

Input : 5

Output

\*

          \*\*

          \*\*\*

        \*\*\*\*

        \*\*\*\*\*

**import** java.util.Scanner;

**public** **class** printSimpleStarPattern {

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

// **TODO** Auto-generated method stub

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

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

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

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

{

**for** (**int** j=1; j<=row-i; j++)

{

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

}

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

{

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

}

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

}

}

}