**Assignment no-1**

**Q Write a program addition of two numbers**

**import** java.util.Scanner;

**public** **class** Add {

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

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

System.***out***.println("enter 1st value");

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

System.***out***.println("enter 2nd value");

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

**int** c=a+b;

System.***out***.println("addition ="+c);

s.close();

}

}

Output –

enter 1st value

98

enter 2nd value

88

addition =186

Q write program to test Hello World.

**public** **class** Hello {

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

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

}

}

Outout –

Hello java

3:Write a program to swap two numbers.

**import** java.util.Scanner;

**public** **class** Swap {

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

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

System.***out***.println("enter 1st number");

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

System.***out***.println("enter 2nd number");

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

a=a+b;

b=a-b;

a=a-b;

System.***out***.println("after swaping "+a+" "+b);

}

}

Output -

enter 1st number

87

enter 2nd number

97

after swaping 97 87

Q Write a program to find factorial of a given number.

**import** java.util.Scanner;

**public** **class** Factorial {

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

System.***out***.println("Enter any no");

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

**int** pa;

pa = sc.nextInt();

**int** fact= 1; // for multiplication and division use 1

**while**(pa >0)

{

fact = fact \* pa;

pa--;

}

System.***out***.println("fact="+ fact);

}

}

Output –

Enter any no

5

fact=120

Q Write a program to find m to the power n.

**import** java.util.Scanner;

**public** **class** Power {

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

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

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

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

**int** pow = 1;

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

{

pow = pow\*m;

}

System.***out***.println(m+" raise to "+n+" = "+pow);

}

}

Output-

6

5

6 raise to 5 = 7776

Q Check if number is a prime number or not.

**import** java.util.Scanner;

**public** **class** Prime {

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

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

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

**int** count=0;

**if**(num==1)

{

System.***out***.println("It is neutral number");

}

**else** {

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

{

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

{

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

count++;

}

}

}

**if**(count==0 )

{

System.***out***.println("It is prime");

}

**else** {

System.***out***.println("It is not prime");

}

}

}

Output – 9

It is not prime

Q Sum of series :

1+2+3+….+n

**import** java.util.Scanner;

**public** **class** SumSeries {

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

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

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

// int sum = (a\*(a+1))/2;

**int** sum =0;

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

{

sum = sum+i;

}

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

}

}

Output –

5

15

Q Write a program to find sum of all even and odd numbers between 1 to n.

**import** java.util.Scanner;

**public** **class** Evenodd {

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

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

**int** n,i,sum=0;

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

n =sc.nextInt();

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

**for**(i=0;i<=n;i=i+2) {

sum=sum+i;

}

System.***out***.println(" Sum of Even number="+sum);

}

**else** {

**for**(i=1;i<=n;i=i+2) {

sum=sum+i;

}

System.***out***.println("Sum of odd number="+sum);

}

}

}

Output –

Enter number

15

Sum of odd number=64

Enter number

20

Sum of Even number=110