ASSIGNMENT 1

1:write program to test Hello World.

**public** **class** helloworld {

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

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

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

}

}

OUTPUT ==

Hello world

2)Write a program to adddition of two numbers also addition of two characters.

**public** **class** Addition {

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

**int** a=10;

**int** b=20;

**int** c=a+b;

**char** ch1='a',ch2='b';

**char** ch=(**char**)(ch1+ch2);

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

System.***out***.println("addition of characters "+ch);

}

}

Output ==

addition30

addition of characters Ã

4)Write a program to calculate power of a number.

**public** **class** Powerofn {

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

**int** p, n;

**int** res=1;

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

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

n=sc.nextInt();

System.***out***.println("Enter the powr of n");

p=sc.nextInt();

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

{

res=res\*n;

}

System.***out***.println("result="+res);

}

}

Output ==

Enter the no

7

Enter the powr of n

5

result=16807

5:Write a program to swap two numbers.

**import** java.util.Scanner;

**public** **class** Swapping {

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

{

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

**int** a,b,temp;

System.***out***.println("enter two no.");

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

a= sc.nextInt();

b= sc.nextInt();

temp=a;

a=b;

b=temp;

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

}

}

Output=

enter two no.

5 6

a = 6 b=5

6:Write a program to find factorial of a given number.

**import** java.util.Scanner;

**public** **class** Factorialno {

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

{

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

**int** i, fact=1, number;

System.***out***.println("Enter the number to which you need to find the factorial:");

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

number = sc.nextInt();

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

{

fact = fact\* i;

}

System.***out***.println("Factorial of the given number is:: "+fact);

}

}

output ==

Enter the number to which you need to find the factorial:

8

Factorial of the given number is:: 40320

7:Write a program to find m to the power n

**public** **class** Powerofn {

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

**int** p, n;

**int** res=1;

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

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

n=sc.nextInt();

System.***out***.println("Enter the powr of n");

p=sc.nextInt();

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

{

res=res\*n;

}

System.***out***.println("result="+res);

}

}

Output ==

Enter the no

7

Enter the powr of n

5

result=16807

8) Check if number is a prime number or not.

**import** java.util.Scanner;

**public** **class** Primeno {

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

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

**int** a,temp=0;

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

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

a=sc.nextInt();

**for**(**int** i=2;i<a;i++)

{

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

temp = temp+1;

}

**if**(temp==0)

{

System.***out***.println("prime no "+a);

}

**else**

{

System.***out***.println("not prime no "+a);

}

}

}

Output ==

Enter no

3

prime no 3

9:Sum of series :

1+2+3+….+n

**import** java.util.Scanner;

//Sum of series :

// 1+2+3+….+n

**public** **class** Sumofseries {

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

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

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

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

n=sc.nextInt();

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

{

s= s+i;

}

System.***out***.println( "series = " +s);

}

}

output==

Enter a number

5

series = 15

10:Check whether the number is palindrome or not?

**import** java.util.Scanner;

**public** **class** Palindrom\_no {

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

**int** no, r,sum=0,temp;

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

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

no=sc.nextInt();

temp=no;

**for**(**int** i=0;i<no;i++)

{

r=no%10;

sum=(sum\*10)+r;

no=no/10;

}

**if**(temp==sum)

System.***out***.println("Palindrom no");

**else**

System.***out***.println("not Palindrom");

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

}

}

output ==

Enter the no

151

Palindrom no

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

**import** java.util.Scanner;

**public** **class** Odd\_Even\_Addition {

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

**int** no ,no1,sumodd = 0,sumeven = 0;

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

System.***out***.println("Enter the size");

no1=sc.nextInt();

**for**(**int** i=1;i<=no1;i++)

{

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

no=sc.nextInt();

**if**(no%2== 0)

{

System.***out***.println("no is even");

sumeven=sumeven+no;

}

**else**

{

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

sumodd=sumodd+no;

}

}

System.***out***.println("addition of odd "+sumodd);

System.***out***.println("additin of even"+sumeven);

}

}

output==

Enter the size

4

Enter the no

2

no is even

Enter the no

3

No is Odd

Enter the no

4

no is even

Enter the no

5

No is Odd

addition of odd 8

additin of even6

12: Write a program to enter a number and print its reverse.

**public** **class** Reverseno {

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

**int** num = 1234567, reversed = 0;

**for**(;num != 0; num /= 10) {

**int** digit = num % 10;

reversed = reversed \* 10 + digit;

}

System.***out***.println("Reversed Number: " + reversed);

}

}

output ==

Reversed Number: 7654321

**import** java.util.Scanner;

**class** PrimeNumbers2

{

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

{

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

**int** i =0;

**int** num =0;

String primeNumbers = "";

System.***out***.println("Enter the value of n:");

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

scanner.close();

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

{

**int** counter=0;

**for**(num =i; num>=1; num--)

{

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

{

counter = counter + 1;

}

}

**if** (counter ==2)

{

primeNumbers = primeNumbers + i + " ";

}

}

System.***out***.println("Prime numbers from 1 to n are :");

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

}

}

Enter the value of n:

150

Prime numbers from 1 to n are :

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89

97 101 103 107 109 113 127 131 137 139 149

14:Write a program to check entered number is Armstrong number or not.

**import** java.util.Scanner;

**public** **class** Armstrongno

{

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

{

**int** n,r,sum=0,temp;

System.***out***.println("enter the number=");

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

n=sc.nextInt(); //153

temp=n; //temp=153

**while**(n>0) //153>0 15>0 1>0

{

r=n%10; //3 //5 1

sum=sum+(r\*r\*r); //0+27 =27 27+125=152 152+1 =153

n=n/10; //15 1

}

**if**(temp==sum)

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

**else**

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

}

}

output ==

enter the number=

153

armstrong number

15:Write a program to find greatest of three numbers using nested if-else.

**import** java.util.Scanner;

**public** **class** FindGN {

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

**int** a,b,c;

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

System.***out***.println( "Enter Three variable");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

**if**(a>b&& a>c)

{

System.***out***.println("grater no a"+a);

}

**else** **if**(b>a && b >c)

{

System.***out***.println("greater no"+b);

}

**else**

{

System.***out***.println("greater no"+c);

}

}

}

output ==

Enter Three variable

3 4 6

greater no6