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ASSIGNMENT-01

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Course :- Java programming

Code :- CSA 0985

date :- 10/7/2024

of the no. upto n :-

```
import java.util.*;
Class Sum{
Pubic Static Void main (String .agr[]){
Scanner sc = new Scanner (System.in);
 int    n = sc.nextInt();
 int    Sum = 0;
For (int i=1; i<=n; i++){
        Sum = Sum+i;
 }
System.out.print ("Sum is:"+Sum);
 }
}
```

Input :- n = 10

Output :- Sum is 55

② Prime Numbers :-

```
Import Java.util.*;
Class prime{
Pubic Static Void main (String agr[]){
Scanner sc = new Scanner (System.in);
 int n = sc.nextInt();
 int Count = 0;
For (int i=1; i<n; i++){
        if (n%i==0){
```

```
        Count ++;
    }
}
if (Count == 2) {
    System.out.println("prime");
else
{
System.out.println("Composite");
}
}
}
```

input :- n=3
output :- prime.

③ Factorial of number :-

```
Class Factorial {
Pubic static void main (String arg[]) {
    int n=6;
    int fact = 1;
For (int i=1; i<=n; i++) {
    fact = fact*i;
}
System.out.println("fact");
}
}
```

Output :- 720

Reverse of a number :-

```
Class Reverse_of_number{
Pubic Static void main (String arg[]){
   int n = 341;
   int rev = 0;
While (n>0){
     i = n %. 10;
   rev = rev* 10+i;
     n = n/10;
  }
System.out.println("Reversed number is": +rev);
 }
}
```

Output :- 143

(5) Armstrong Number

```
Class Armstrong {
Pubic Static void main (String arg[]){
      int n=153
      int temp=n;
  While (n>0){
      i = n %.10;
  Sum = ;*;+i;
     n= n/10;
 }
IF (Sum==temp){
System.out.println("Armstrong");
}
else
{
 System.out.println("Not Armstrong");
}
}
```

(6) Paindrome :-

```
Class paindrome {
Pubiic Static Void main (String args[]){
    int n = 12321;
    int rev = 0;
    while (n>0){
        i = n %10;
        rev = rev* 10+i;
        n=n/10;
    }
    if (rev ==n){
Syttem. out . printn ("paindome");
    }
    else
Syttem. out . printn ("Not paindome")
    }
}
```

Output :- paindrome

(7) Sum of the digits

```
Class Sum. of .digits {
Pubiic Static Void main (String arg. []){
    int n = 123;
    int Sum =0;
        while (n>0){
            i = n %. 10;
            Sum = +i;
            n = n /10;
        }
    Syttem . out. printn (" The sum"+Sum);
}
```

Output = 6

... by 5 and 7 upto n:-

```
Class Divisibity {
Pubic Static Void main (String args[]){
 int n = 100;
 For (int i=1 ; i<=n; i++){
      if (i%5 == 0 && i%7 == 0){
 }} System.out.print (i);
```

Output :-

35
70

(9) Perfect number

```
Class Perfect {
Pubic Static Void main (String args[]){
   int Sum =0;
   int n = 28;
   int 0=n;
  For (i=1; i<n; i++){
    if (n%i ==0) {
      Sum = Sum+i;
  }}
 if (Sum ==0){
 System.out.println ("perfect");
   }
   else {
   System.out.println ("Nope");
 }}
```

Output :-

Perfect

10 Sum of even - odd :-

```
Class Sum_of_even_odd {
Pubic Static Void main (String arg[]){
   int n = 10 ;  esum = 0;  osum = 0;
For (int i=1; i<n; i++) {
    if (i%2 == 0)
      {
    esum += i;
    }
    else {
    osum += i;
    }
System.out.println("esum :" + esum);
System.out.println(" osum :" + osum);
}
}
```

Output :-

esum = 30
osum = 25

11

Leap year :-

```
Class Leap year {
Pubic Static Void main (String arg[]){
   int year = 2024;
if (year % 4 == 0 || year % 400 = 0 && year % 100 != 0){
   System.out.println(" Leap year");
   }
   else {
    System.out. println(" Not Leap year");
    }
}
```

Output :-

Leap year.

Even or Odd :

```
Class Even-Odd {
Public Static Void main (String args[]){
   int n= 400;
  if (n%2 ==0){
  System.out.println (" Even");
  }
  else {
    System.out.println ("odd");
  }
}
```

Output :-

Even.

(13) Gcd and Lcm

```
Class Gcd-Lcm {
Public Static Void main (String args[]){
    int a=2;
    int b=4;
    int temp;
  while (b>0){
      temp =b;
      b= a%b;
      a= temp;
    }
  int gcd =a;
  int Lcm = (a*b) /gcd;
  System.out.println (" Gcd "+gcd);
  System.out.println (" Lcm."+ Lcm);
```

Output :-

Gcd : 2
Lcm : 4

(14) Strong Number :-

```
Class strong number {
Pubic Static Void main (String args[]){
    int n= 145;
    int sum =0, rem ,fact;
    int temp =n;
while (n>0) {
    rem = n %. 10;
 fact - 1
  for (i=1; i<=n; i++){
     fact = fact * i ;
 sum = sum + fact ;
    n=n/10;
}
if (sum ==temp) {
System.out.println("Strong");
}
else {
System.out.println ("No");
}
```

Output :-
Strong.

(15) Celcius to faichheast :-

```
Class temperature {
Pubic Static void main (String args[]){
    double Celcius =39.0;
    double Fabrenheit = (Celsius *9/5) + 32;
System.out.println (Fahrenheit");
}
```

Output :- 102.2

(16) Farienheit to Celciys :-

```
Class temperature {
Pubic Static Void, main (~~array~~ String args[]){
    double Fahrenheit = 102.2
    double Celsius = (Fahrenhex -32) * 5/9;
```

System.out.println("Celsius");
}
}

Output :-
39.0.

(18) Binary to Decimal :-

```
Class binary-decimal {
Pubic static void main (String args[]){
String binarystring = "1010";
int decimal = Integer.parseInt(binarystring,2);
System.out.println("decimal");
}}
```

Output :-
10.

(19) decimal to binary

```
Class decimal - binary {
Pubic static void main (String args[]){
int decimal = 10;
String binary = Integer.toBinaryString(decimal);
System.out.println("binary");
}
}
```

Output :-

1010

20. Addition of 2 numbers :-

```
Class Addition of 2 numbers {
Pubic Static Void main (String .agg:[]){
    int a=2;
    int b=3;
    int c=a+b;
System. out. println (" sum is :"+c);
}
}
```

Output :-

Sum is 5.