CSA0985. JAVA

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01. Sum of no upto n :-

```
import java.util.*;
class Sum{
public static void main(String args[]){
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.println("Sum is:" + sum);
}
}
```

Input :- n=10

output :- sum is 55.

2. Prime number :-

```
import java.util.*;
class prime{
public static void main(String args[]){
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.

03- factorial of number:-

```
Class factorial{
  Public static void main(String args[]){
    int n=6;
    int fact=1;
    for(int i=1; i<=n; i++){
      fact = fact*i;
    }
  System.out.println(fact);
  }
  }
```

Output:- 720.

04- Reverse of a number:-

```
Class Reverse_of_number{
  Public static void main(String args[]){
    int n=343;
    int rev=0;
    While(n>0){
      i=n%10;
    rev=rev*10+i;
      n=n/10;
    }
  System.out.println("Reversed number is:" + r
  }
  }
```

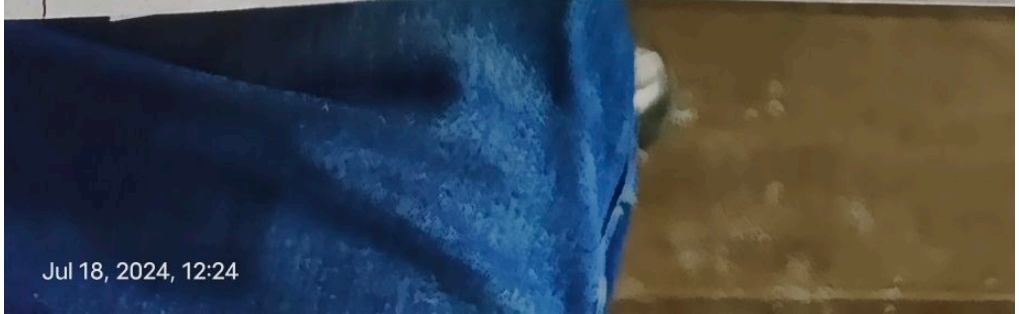
Output:- 343.

5. Armstrong number :-

```
class armstrong{
public static void main (String args[]){
  int n=153;
  int temp=n;
  while(n>0) {
    i=n%10;
  sum+=i*i*i;
    n=n/10;
  }
if(sum==temp){
  System.out.println("Armstrong");
  }
else
  {
  System.out.println("Not Armstrong");
  }
}
}
```

6 palindrome :-

```
class palindrome{
public 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){
System.out.println("palindrome");
}
else{
System.out.println("NOPE");
}
}
}
```



07. sum of digits:-

```
class sum_of_digits{
public static void main(String args[]){
int n = 128;
int sum = 0;
  while(n>0){
    i = n%10;
   sum += i;
    n=n/10;
  }
System.out.println("The sum is"+sum);
}
}
```

Output:- 6.

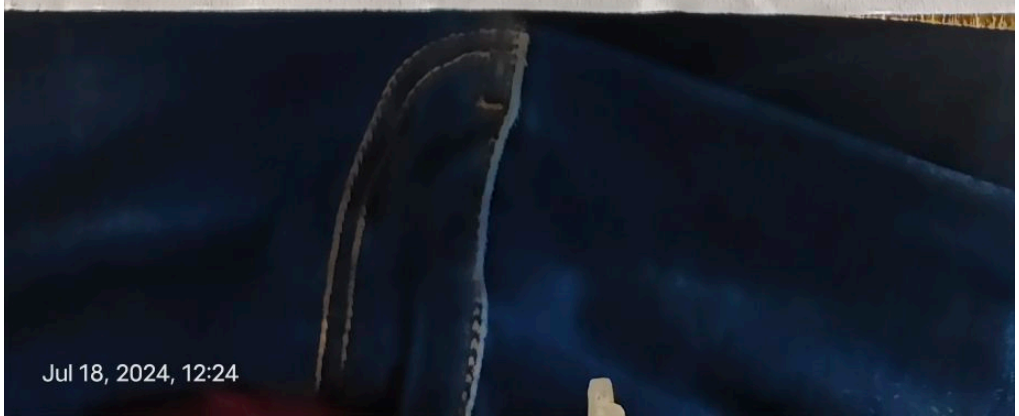
08. Divisble by 5 and 7 upto n:-

```
class DPrisblity{
public static void main(String args[]){
int n = 100;
 for(int i=1 ; i<=n; i++){
    if(i%5==0&&i%7==0){
      System.out.println(i);
 }
 }
 }
 }
```

Output:-

35

70.



perfect number :-

```
class perfect{
public static void main(String args[]){
  int sum=0;
  int n = 28;
  int o =n;
 for(int 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.

sum of even-odd :-

```
class sumofeven_odd{
public static void main (String args[]){
    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);
}
}
```

outp
esu
osu

11. Leap year :-

```
class Leap year{
 Public static void main (String args[]){
   int year = 2024;
   if (year %4 ==0 || year %400=0 && year %
    System.out.println("Leap year");
    }
   else{
    System.out. println ("Not Leap year");
    }
}
}
```

Output:-

deap year.

12. 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.

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.

Strong number:-

```
class strongnumber{
  Public 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.print ("strong");
}
else{
System.out.
}
}
}
```

output:-
strong.

15- Celsius to fahrenheit:-

```
class Temperature{
 Public Static void main(String args[]){
  double Celsius = 39.0;
  double fahrenheit = (Celsius * 9/5) + 32;
 System.out.println(fahrenheit);
}
}
```

Output:-

102.2

16. farienheit to Celcius :-

```
class Temperature{
public static void main(String args[]){
   double fahrenheit = 102.2;
   double Celsius   = (fahrenheit - 32) * 5/9;
System.out.println(celsius);
}
}
```

Output:-

39.0.

8. Binary to Decimal :-

```
Class Binary_Decimal{
 Public Static void main(String args[]){
  String binarystring = "1010";
  int decimal=Integer.parseInt(binarystring,2);
  System.out.println(decimal);
 }
 }
```

Output:-

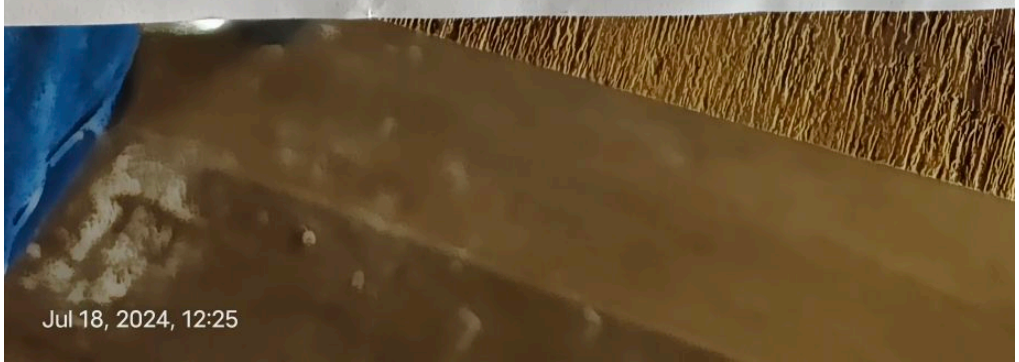
10.

Decimal to Binary :-

```
Class Decimal_Binary{
Public 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_2numbers{
 Public static void main(string args[]){
    int a=2;
    int b=3;
    int c=a+b;
  System.out.println("sum is:"+c);
  }
  }
```

Output:-

Sum is 5.