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```
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);
}
}
```

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");
}
}
}
```

n=3, prime.

factorial of a 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);
  }
  }
```

n=6 -> 720

Reverse of a number:

```
class Reverse_of_number{
pubsic static void main (String args[]){
      int n=341;
      int rev=0;
      while (n>0){
         i=n%10;
         rev=rev*10+i;
          n=n/10;
      }
   System.out.println("Reverse" + rev);
}
```

Armstrong number:

```
class amstrong {
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 ("Not an amstrong");
    }
}
```

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.print in ("Not");
}
}
}
```

Sum of digits:-

```
class sum of digits {
public static void main (string args[]) {
    int n =123;
    int sum = 0;
    while (n>0){
        i° = n·1·10;
        Sum+ = i';
        n=n/10;
    }
  System.out. println ("the sum is "+sum);
 }
}
```

divisible by 5 and 7 upto n:-

```
class divisibility {
public static void main (string args[]){
    int n=100',
    for (int i = 1'; i<=n'; i++);){
        if (i°·1·5==0 & i·1·7 ==0){
        System .out.println (i);
  }
  }
  }
  }
```

Perfect number:

```
class perfect{
public 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("not");
    }
}
}
```

Sum of even and odd:-

```
class sum_of_even_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);
   }
   }
```

Leap year:-

```
class leap year {
public static void main (string args[])[
    int year = 2024;
    if (year % 4 == 0 || year % 400 = 0 && year % 100 != 0);
        system.out.println ("leap");
        }
    else {
    system.out.println ("not");
    }
}
}
```

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");
    }
}
```

GCD and LCM

```
class gcd_LCM {
public static void main (string args ()) {
    int a = 2;
    int b = 4;
    int temp;
```

```
while (n>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);
}
}
```

strong number:-

```
class strong number {
public static void main (string args[]) {
    int n=145;
    int sum=0, rem, fact;
    int temp=n;
    while (n>0) {
      rem = n-1.10;
      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 ("not");
  }
```

15) celcius to farenheit:-

```
class Temperature {
public static void main (string args[]){
  double celsius = 39.0;
  double farenheit = (celsius * 9/5) + 32;
  System.out.println (farenheit)
  }
  }
```

16) farenheit — to celcius:-

```
  class temperature {
public static void main (string args[]) {
  double farenheit = 102.2;
  double celcius = farenheit - 32) *5/9;
  system.out.println ( celcius);
  }
  }
```

18) Binary — to decimal:-

```
class binary_decimal {
pubeic static voidmain (string args[]){
  string binary string = "1010";
  int decimal = integer.parseInt (binary string.
  System.out.println (decimal);
  }
  }
```

sum of 2 nums:-

```
class addition_of_2numbers {
public static void main (String args[]) {
    int a=2;
    int b = 2;
    int c = a+b;
System.out.println ("sum is:" + c);
 }
}
```