

of the 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.print ("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.

③

Factorial of numbers:-

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



### Reverse of a number :-

```
Class Reverse - of - number {  
Public 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("Reversed number is: " + rev);  
}
```

Output : 143

### 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 arg[]) {
    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 ("Not Palindrome");
    }
}

```

Output:- Palindrome

⑦

Sum of the digits

```

Class Sum of Digits {
Public Static Void main (String arg[]) {
    int n = 123;
    int sum = 0;
    while (n > 0) {
        i = n % 10;
        sum = +i;
        n = n / 10;
    }
    System.out.println ("The sum" + sum);
}
}

```

Output = 6

visible by 5 and 7 upto n:-  
 Class Divisibility {  
 Public Static  
 int n = 100;  
 For (int i = 1; i <= n; i++)

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 % 5 == 0 & i % 7 == 0) {  
            System.out.print (i);  
        }  
    }  
}
```

Output :-

35  
70

9

Perfect Number

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

Output:-

Perfect



10 Sum of even-odd :-

```

Class Sum_of_even-odd {
    Public Static void main (String args[]) {
        int n = 10; // sum = 0, o sum = 0;
        For (int i = 1; i < n; i++) {
            if (i % 2 == 0)
            {
                e sum += i;
            }
            else {
                o sum += i;
            }
        }
        System.out.println("e sum : " + e sum);
        System.out.println("o sum : " + o sum);
    }
}

```

Output :-  
 e sum = 30  
 o sum = 25

11 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 year");
        }
        else {
            System.out.println("Not Leap year");
        }
    }
}

```

Output :-  
 Leap year.

Even-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");  
 }  
 }  
 }



```

Even or Odd
Class
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



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

Output :-

39.0.

### 18) 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.

### 19) decimal to binary

```
Class decimal - binary {  
    Public static void main (String args[]) {  
        int decimal = 10;  
        String binary = Integer.toString(decimal, 2);  
        System.out.println("binary");  
    }  
}
```

Output :-

1010



20. Addition of 2 numbers:-

```
Class Addition of 2 numbers {  
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

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