

Sum of natural num

class main {

public static void main (String[] args) {

int n;

int sum = 0;

for (i = 0; i < 100; i++) {

sum = sum + i

System.out.println (sum)

}

Check the num^{is} prime :

class Main {

public static void main (String[] args) {

int n;

for (i = 0; i <= n; i++) {

if (n % i == 0) {

System.out.println (prime)

else

System.out.println (not)

}

To find factorial

class Main {

public static void main (String[] args) {

int n, fact = 1;

for (i = 0; i <= n; i++) {

fact = fact * i

System.out.println (fact)

}

fibonacci series.

```
class Main {  
    public static void main (String [] args)  
    {  
        int a=0;  
        int b=1;  
        int c, n;  
        c = a+b;  
        c = a;  
        a = b;  
        System.out.println (c);  
    }  
}
```

~~Reverse a number~~ GCD :

```
class Main {  
    public static void main (String [], args)  
    {  
        int a, b, gcd;  
        if (b==0) {  
            return a;  
        }  
        return gcd (b, a%b);  
    }  
    int num1 = 30, num2 = 20  
    int result = gcd (num1, num2)  
    System.out.println (result);  
}
```

LCM of two num

```
public class Main {
```

```
    public static int gcd (int a, int b) {  
        if (b==0) {  
            return a;  
        }  
        return gcd (b, a%b);  
    }  
}
```



```

public static int (m (a, int b) {
    return (a * b) / gcd (a, b);
}
public static void main (String[] args) {
    int num1 = 12, num2 = 15;
    int result = lcm (num1, num2);
    System.out.println (result);
}
}

```

(18)

perfect number

```

class Main {
    public static void (String[] args)

```

```

    long n, sum = 0;

```

```

    int i = 1;

```

```

    while (i <= n / 2)

```

```

    {
        if (n % i == 0)

```

```

            sum = sum + i;

```

```

        i++;

```

```

    }
    if (sum == n)

```

```

        System.out.println ("perfect");

```

```

    else

```

```

        System.out.println ("not");
    }
}

```

(19)

class Main {

```

    public static void main (String[] args) {

```

```

        int rem = 0, sum = 0; int num;

```

```

        while (num > 0)

```

```

            rem = num % 10;

```

```

            sum = sum + (rem * rem);

```

```

            num /= 10;
        }
    }
}

```

```

    }
    return sum;
}
if (result == 1)
    System.out.println("happy number");
else
    System.out.println("not happy number");
}
}

```

80)

sum of odd numbers.

class Main {

public static main (String [], args) {

int i, sum = 0;

int n;

for (i = 1; i <= n; i += 2) {

if (i % 4 == 1)

sum = sum + i;

else

sum = sum - i;

}

System.out.println(sum);

}

}

7) class Main ()
 public static void main (String[] args) {
 int n, sum, r;
 while (n > 0):
 r = n % 10;
 sum = sum + (r * r * r);
 n / 10;
 if (n == sum) {
 System.out.println ("amstrong");
 } else {
 System.out.println ("not");
 }
 }

8) sum of digit.

```
class Main {
    public static void main (String[] args) {
        int n, sum, r;
        while (n > 0) {
            r = n % 10;
            sum = sum + r;
            n / 10;
        }
        System.out.println (sum);
    }
}
```

9) Square root :

import java.util.

class Main {

public static void main (String[] args)

```
int n;  
System.out.println(sqrt(n));
```

3 y

10) Leap year:

```
class Main {
```

```
    public static void main (String[], args) {
```

```
        int n;
```

```
        if (n%4 == 0) {
```

```
            System.out.println("Leap year");
```

```
        else:
```

```
            System.out.println("not");
```

```
    }
```

11)

Number divisible by 5 and 7.

```
class Main {
```

```
    public static void main (String[], args) {
```

```
        int n;
```

```
        if (n%5 == 0 and n%7 == 0) {
```

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

```
        else:
```

```
            System.out.println("not");
```

```
    }
```


Decimal to binary :

```
class Main {
    public static void main (String[], args) {
        int decimal = 45;
        String binary = decimalToBinary(decimal);
        System.out.println (binary);
    }
}
```

yy

(13) Binary to decimal:

```
class Main {
    public static void Main (String[] args) {
        String binary = "10010";
        int decimal = binaryToDecimal
                        (binary);
        System.out.println (decimal);
    }
}
```

y y

(4) Celsius to Fahrenheit:

```
class Main {
    public static void main (String [], args) {
        double celsius = 20.0;
        double fahrenheit = (celsius * 1.8) + 32;
        System.out.println (celsius + " is equivalent to " + fahrenheit);
    }
}
```

15) fahrenheit to celsius.

class Main {

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

double fahrenheit = 68.0;

double celsius = (fahrenheit - 32) * 0.556;

System.out.println (fahrenheit + "

f is equal to" +

celsius + " c");

}

16) ~~GED to num~~ : Reverse a number :

class Main {

public static main (String [], args) {

int reversed = 0, original, r, n;

while (n > 0) {

r = n % 10;

original = reversed * 10 + r;

n = n / 10;

if (original == reversed) {

System.out.println (reverse num);

}

6) palindrome

class Main {

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

int reversed = 0, original, r, n.

while (n > 0) {

r = n % 10

original = reversed * 10 + r

n /= 10.