```
1 // Count digits in a number
3 - class Main {
      public static int countingDigits(int num){
           int count =0;
6 -
           while(num>0){
7
               num = num / 10;
8
              count++;
9
           }
10
           return count;
11
       public static void main(String[] args) {
12 -
           System.out.println(countingDigits(12345));
13
14
       }
15 }
```

```
1 // Check if a number is Palindrome or Not
2
3 - class Main {
        public static void isPalindrome(int num){
5
            int rem = 0;
           int revNum=0;
6
7
            int orignalNum = num;
8 -
           while(num>0){
9
               rem = num %10;
10
               num = num / 10;
               revNum = revNum * 10 + rem;
11
12
            }
13 -
            if(revNum==orignalNum){
14
               System.out.println("Palindrome Number");
15
            }
16 -
            else{
                System.out.println("Not Palindrome");
17
18
            }
19
       }
20 -
       public static void main(String[] args) {
            isPalindrome(4554);
21
22
            isPalindrome(7789);
23
       }
24 }
```

Output

```
Palindrome Number
Not Palindrome
=== Code Execution Successful ===
```

```
1 // Find GCD of two numbers
2
3 - class Main {
       public static int GCD(int num1 , int num2){
           int gcd =1;
           int min = Math.min(num1,num2);
7 -
           for (int i = min; i >= 1; i--) {
8 -
               if (num1 \% i == 0 \&\& num2 \% i == 0) {
9
                  gcd =i;
10
               break;
11
               }
12
           return gcd;
13
14
       }
15 -
       public static void main(String[] args) {
          System.out.print(GCD(12,24));
16
17
       }
18 }
```

```
Output

12
=== Code Execution Successful ===
```

```
1 // Check if a number is Armstrong Number or not
 2
 3 - class Main {
4 -
       public static void isArmstrong(int num){
 5
           int OrgNum = num;
           int copynum = num;
 6
 7
           int length = 0;
           while(num>0){
                num = num/10;
 9
10
                length ++;
11
12
           int armNum = 0;
            while(OrgNum>0){
13 -
                int rem = OrgNum % 10;
14
                OrgNum = OrgNum / 10;
15
                armNum += Math.pow(rem, length);
16
17
            }
18 -
            if(armNum == copynum){
                System.out.println(" is an Armstrong number");
19
20 -
            } else {
21
                System.out.println(" is not an Armstrong number");
22
            }
23
        }
        public static void main(String[] args) {
24 -
25
           isArmstrong(123);
26
        }
```

Output

```
is not an Armstrong number
=== Code Execution Successful ===
```

```
class Main {
  public static void divisors(int num){
    for(int i=1;i<Math.sqrt(num);i++){
        if(num % i ==0){
            System.out.print(i);
            if(i!=Math.sqrt(num)){
                 System.out.print(","+num/i+",");
            }
        }
        public static void main(String[] args) {
             divisors(12);
        }
}</pre>
```

```
Output

1,12,2,6,3,4,
=== Code Execution Successful ===
```

```
1 // Check if a number is prime or not
 2
3 - class Main {
 4 public static boolean isPrime(int num){
 5
      int count =0;
      for(int i=1;i<=Math.sqrt(num);i++){</pre>
 6 -
         if(num % i ==0){
 8
             count++;
                if(i!=Math.sqrt(num)){
 9 -
10
                     count++;
11
                 }
12
              }
13
      if(count==2){
14 -
15
             return true;
16
       }
17 -
      else{
              return false;
18
19
20
       public static void main(String[] args) {
21 -
22
          System.out.println(isPrime(2));
          System.out.println(isPrime(10));
23
24
25 }
```

```
Output

true
false
=== Code Execution Successful ===
```