

```

1 public class TestThrow{
2     public static void checkNum(int num){
3         if (num<1){
4             throw new ArithmeticException("\nNumber is negative,cannot calculate square");
5
6         }
7         else {
8             System.out.println("Squire of"+num+"is"+(num*num));
9         }
10    }
11    public static void main(String[]args){
12        TestThrow obj = new TestThrow();
13        obj.checkNum(-3);
14        System.out.println("Rest of the code ");
15    }
16 }
17

```

I

input

```

Exception in thread "main" java.lang.ArithmeticException:
Number is negative,cannot calculate square
    at TestThrow.checkNum(TestThrow.java:4)
    at TestThrow.main(TestThrow.java:13)

```

```

...Program finished with exit code 1
Press ENTER to exit console.

```

```
1 public class TestThrow {
2     public static void checkNum(String s){
3         if(s==null){
4             throw new ArithmeticException("\n Number is negative, cannot calculaye square");
5         }
6     }
7     else {
8         //System.out.println("square of"+s+"is"+(num*num));
9     }
10 }
11 public static void main(String[] args){
12     TestThrow obj = new TestThrow();
13     obj.checkNum(null);
14     System.out.println("rest of the code");
15 }
16 }
```

input

Exception in thread "main" java.lang.ArithmeticException:
Number is negative, cannot calculaye square
at TestThrow.checkNum(TestThrow.java:4)
at TestThrow.main(TestThrow.java:13)

...Program finished with exit code 1
Press ENTER to exit console.


```
1 public class Main{
2     static void checkAge(int age) throws ArithmeticException{
3         if(age<18){
4             throw new ArithmeticException("Access denied - You must be at least 18 years old");
5         }
6         else{
7             System.out.println("Access granted - You are old enough");
8         }
9     }
10    public static void main(String[] args){
11        checkAge(20);
12        //set age to 15
13    }
14 }
15
```

input

Access granted - You are old enough

...Program finished with exit code 0
Press ENTER to exit console.

```
1 public class TestThrowAndThrows{  
2     static void method() throws ArithmeticException{  
3         System.out.println("inside the method()");  
4         throw new ArithmeticException("throwing ArithmeticException");  
5     }  
6     public static void main(String[] args){  
7         try{  
8             method();  
9         }  
10        catch(ArithmeticException e){  
11            System.out.println("caught in main() method");  
12        }  
13    }  
14 }
```

inside the method()
caught in main() method

...Program finished with exit code 0
Press ENTER to exit console.


```
1 public class TestThrows{
2     public static int divideNum(int m,int n)throws ArithmeticException{
3         int div = m/n;
4         return div;
5     }
6     public static void main(String[] args){
7         TestThrows obj = new TestThrows();
8         try{
9             System.out.println(obj.divideNum(45,0));
10        }
11        catch(ArithmeticException e){
12            System.out.println("\nNumber cannot be divided by 0");
13        }
14        System.out.println("Rest of the code..");
15    }
16 }
```

I



input

Number cannot be divided by 0
Rest of the code..

...Program finished with exit code 0
Press ENTER to exit console.