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TestThrow.java

```
1 public class TestThrow {
2     public static void checkNum(int num){
3         if(num<1){
4             throw new ArithmeticException("\n Number is negative, cannot calculaye square");
5         }
6     }
7     else {
8         System.out.println("square 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 }
```

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.



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TestThrow.java :

```
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
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```










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Main.java

```
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 }
```

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input

Access granted - You are old enough

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



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TestThrowAndThro...

```
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 }
```

input

inside the method()
caught in main() method

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

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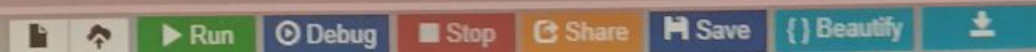
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TestThrows.java :

```
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("\n number cannot be divide by 0");
13        }
14        System.out.println("rest of the code");
15    }
16 }
```

input

```
number cannot be divide by 0
rest of the code

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



ThrowEx3.java :

```
1 import java.util.Scanner;
2 public class ThrowEx3
3 {
4     public static void method1(int a[]){
5         for(int i=0;i<=a.length;i++)
6         {
7             System.out.println(a[i]);
8         }
9     }
10    public static void main(String[] args) {
11        Scanner sc=new Scanner(System.in);
12
13        System.out.println("enter size");
14        int n=sc.nextInt();
15        int a[]=new int[n];
16        try{
17            method1(a);
18        }
19        catch(ArrayIndexOutOfBoundsException e)
20        {
21            System.out.println("index out of bound");
22        }
23    }
```

input

enter size

5

0

0

0

0

0

0

index out of bound

...Program finished with exit code 0

Press ENTER to exit console.



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