

# ARITHMETIC USING EXCEPTION

## Code:

```
2 package com.mycompany.exceptionforarithmetics;
3
4 import java.util.*;
5 public class ExceptionForArithmetics {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         int a, b, choice;
10        do{
11            System.out.println("Enter 1st number: ");
12            a=sc.nextInt();
13            System.out.println("Enter 2nd number: ");
14            b=sc.nextInt();
15            System.out.println("Enter choice(1.'+'; 2.'-'; 3.'*';"
16                               + " 4.'/'; 5.Exit): ");
17            choice=sc.nextInt();
18            try{
19                switch(choice){
20                    case 1: System.out.println("Addition: "+(a+b)); break;
21                    case 2: System.out.println("Subtraction: "+(a-b)); break;
22                    case 3: System.out.println("Multiplication: "+(a*b)); break;
23                    case 4: System.out.println("Divide: "+(a/b)); break;
24                    case 5: break;
25                    default: System.out.println("Invalid choice ");
26                }
27            }
28            catch(Exception e){
29                System.out.println("It is divided by zero. ");
30
31                System.out.println("Try again. ");
32            }
33        }while(choice!=5);
34    }
```

## Output:

```
Enter 1st number:
45
Enter 2nd number:
67
Enter choice(1.'+'; 2.'-'; 3.'*'; 4.'/'; 5.Exit):
3
Multiplication: 3015
Enter 1st number:
23
Enter 2nd number:
0
Enter choice(1.'+'; 2.'-'; 3.'*'; 4.'/'; 5.Exit):
4
It is divided by zero.
Try again.
Enter 1st number:
23
Enter 2nd number:
1
Enter choice(1.'+'; 2.'-'; 3.'*'; 4.'/'; 5.Exit):
5
```