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Main.java

Run Clear

```
1 import java.util.InputMismatchException;
2 import java.util.Scanner;
3
4 public class Person{
5     public static void main(String args[]) {
6         Scanner scanner = new Scanner(System.in);
7         String name = "";
8         int age = 0;
9
10        while (true) {
11            try {
12
13                System.out.print("Enter Name: ");
14                name = scanner.nextLine();
15
16                System.out.print("Enter Age: ");
17                age = scanner.nextInt();
18                break;
19            }
20            catch (InputMismatchException e) {
21                System.out.println("Invalid input");
22                scanner.nextLine();
23            }
24        }
25        System.out.println("Name: " + name);
26        System.out.println("Age: " + age);
27    }
28 }
```

Output

```
Enter Name: Shruthi
Enter Age: Sri
Invalid input
Enter Name: Shruthi
Enter Age: 20
Name: Shruthi
Age: 20

*** Code Execution Successful ***
```

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Team.java

Run Clear

```
1- import java.util.*;
2
3- public class Team {
4-     public static void main(String args[]) {
5-         final int MAX = 10;
6-         List<String> team = new ArrayList<>();
7-         Scanner scanner = new Scanner(System.in);
8
9-         while (team.size() < MAX) {
10-             System.out.print("Enter Member Name: ");
11-             String name = scanner.nextLine();
12
13-             if (name.equalsIgnoreCase("stop")) break;
14
15-             try {
16-                 if (!name.matches("[a-zA-Z]+"))
17-                     throw new Exception("Invalid name! Only letters, dot, and space are allowed.");
18
19-                 team.add(name);
20-                 System.out.println("Added: " + name);
21-             } catch (Exception e) {
22-                 System.out.println("Error: " + e.getMessage());
23-             }
24-         }
25
26-         System.out.println("\nTeam Members:");
27-         team.forEach(System.out::println);
28
29-     }
30 }
```

Output

```
Enter Member Name: Aaa
Added: Aaa
Enter Member Name: 1234
ERROR!
Error: Invalid name! Only letters, dot, and space are allowed.
Enter Member Name: Aaaa
Added: Aaaa
Enter Member Name: BBbbb
Added: BBbbb
Enter Member Name: Cccc
Added: Cccc
Enter Member Name: Dddddd
Added: Dddddd
Enter Member Name: Eeeee
Added: Eeeee
Enter Member Name: Ffffff
Added: Ffffff
Enter Member Name: stop

Team Members:
Aaa
Aaaa
BBbbb
Cccc
Dddddd
Eeee
Ffffff

*** Code Execution Successful ***
```

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Main.java

Run Clear

```
1 import java.util.*;
2
3 public class maths{
4     public static void main(String args[]) {
5         Scanner scanner = new Scanner(System.in);
6         try {
7             System.out.print("Enter first number: ");
8             int a = scanner.nextInt();
9             System.out.print("Enter second number: ");
10            int b = scanner.nextInt();
11
12            System.out.println("\n1.Add \n2.Subtract \n3.Multiply \n4.Divide");
13            System.out.print("Enter choice: ");
14            int math = scanner.nextInt();
15
16            switch (math) {
17                case 1 -> System.out.println("Result: " + (a + b));
18                case 2 -> System.out.println("Result: " + (a - b));
19                case 3 -> System.out.println("Result: " + (a * b));
20                case 4 -> System.out.println(b == 0 ? "Error: Division by zero!" : "Result:
21                                " + (a / b));
22            default -> System.out.println("Invalid choice!");
23        } catch (InputMismatchException e) {
24            System.out.println("Error: Please enter numeric values only.");
25        }
26    }
27 }
```

Output

```
Enter first number: 500
Enter second number: 200
1.Add
2.Subtract
3.Multiply
4.Divide
Enter choice: 3
Result: 100000
*** Code Execution Successful ***
```

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