

Practice 9

1. Exception handling Consider the two arrays shown below:

```
String[] months = {"January", "February", "March", "April",  
"May", "June", "July", "August", "September", "October",  
"November", "December"};  
  
int[] dom = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};
```

Write a program that prompts the user to enter an integer between 1 and 12 and then displays the month and its number of days corresponding to the integer entered. The program should handle the following situations:

- a. If the user enters a wrong number, the program should display `Wrong Number` by catching `ArrayIndexOutOfBoundsException`.
 - b. If the user enters anything other than an integer, it should display `Invalid Input` by catching `InputMismatchException`.
- ### 2. Write student grades
- Write a program that asks the user to enter the name of a new text file and prompts the user to enter the names and marks of students and write them to a text file. After the user enters the name and marks of each student, the user should be asked whether they want to continue to enter more.

```
Enter new text file name: students.txt  
Enter name and marks of a student: Jim 76  
Continue? (y/n): y  
Enter name and marks of a student: Pam 83  
Continue? (y/n): y  
Enter name and marks of a student: Toby 91  
Continue? (y/n): y  
Enter name and marks of a student: Michael 58  
Continue? (y/n): y  
Enter name and marks of a student: Oscar 63  
Continue? (y/n): n  
Names and marks saved!
```

- ### 3. Read student grades
- Write a program that reads in the name of the file created in the previous exercise. It should read the names and marks stored in the file and print the name of the student with the highest grade.

```
Enter text file name: students.txt  
Student who scored the highest is Toby
```