Experiment No: 4

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Program: Program for exception handling
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```
import java.util.Scanner;
class ExceptResult extends Exception {
  String detail;
  ExceptResult(String str) {
     detail = str;
  public String getMessage() {
     return "ExceptResult[" + this.detail + "]";
}
class EXP4 {
  int n;
  int marks[];
  double percentage;
  void getMarks() {
     int flag = 0;
     try (Scanner sc = new Scanner(System.in)) {
       System.out.print("Enter total number of subjects:");
       n = sc.nextInt();
       this.marks = new int[n];
       try {
          System.out.print("Enter marks [out of 100] of all subjects!\n");
          for (int i = 0; i < n; i++) {
             System.out.print("Enter marks of subject" + (i + 1) + ":");
             marks[i] = sc.nextInt();
             if (marks[i] < 40) {
               flag = 1;
          if (flag == 1) {
             throw new ExceptResult("Failure as marks < 40!");
             this.calResult();
        } catch (ExceptResult er) {
          System.out.print("\nCaught an exception: " + er.getMessage());
        } catch (Exception e) {
          System.out.print("\nCaught an exception: " + e);
```

Output:

Select C:\Windows\system32\cmd.exe

```
D:\Programming\College Experiments\TY 5 Sem\JAVA PL>javac EXP4.java

D:\Programming\College Experiments\TY 5 Sem\JAVA PL>java EXP4

Enter total number of subjects:5

Enter marks [out of 100] of all subjects!

Enter marks of subject1:95

Enter marks of subject2:94

Enter marks of subject3:93

Enter marks of subject4:39

Enter marks of subject5:28

Caught an exception: ExceptResult[Failure as marks < 40!]

If         Got the percentage, 'Well done!'

Else         Got an Exception, 'Try again!'

D:\Programming\College Experiments\TY 5 Sem\JAVA PL>
```