

## Assignment Exception

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1. Write a JAVA program to get the following user details: Name, Date of Birth, Pincode and handle the following exception: Name should not be less than 3 characters, Age should be at least 12 and Pincode should be 6 digit number.

Program:

```
import java.util.Scanner;
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;

public class program {

    static int str2int(String date) {

        int i = 0; int num = 0;

        while (i < date.length()) {
            num = num*10;
            num = num+date.charAt(i++) - '0';
        }

        return num;
    }

    static String Name() {

        Scanner uname = new Scanner(System.in);
        System.out.println("\nEnter name:");
        String name = uname.nextLine();

        try {
            if (name.length() < 3) {
                throw new ArithmeticException("Name should be at least 3 characters.");
            }
        } catch (ArithmeticException e) {
            System.out.print(e);
            name = Name();
        }

        return name;
    }

    static int Age() {

        Scanner udate = new Scanner(System.in);

        System.out.println("\nEnter D.O.B (yyyymmdd):");
        int date = udate.nextInt();

        LocalDate tdate = LocalDate.now();
        DateTimeFormatter dmyr = DateTimeFormatter.ofPattern("yyyymmdd");
        String fdate = tdate.format(dmyr);

        int ndate = str2int(fdate);
        int age = (ndate - date)/10000;

        try {
            if (age < 12) {
                throw new ArithmeticException("To apply, you should be 12 years old.");
            }
        }
    }
}
```

```

    }
} catch (ArithmeticException e) {
    System.out.println(e);
    System.out.println("Thanks for your consideration and understanding.");
}

return age;
}

static int Code() {

    Scanner ucode = new Scanner(System.in);
    System.out.println("\nEnter Pincode:");
    int code = ucode.nextInt();

    try {
        if (String.valueOf(code).length() != 6) {
            throw new ArithmeticException("Pincode should be a 6 digit number.");
        }
    } catch (ArithmeticException e) {
        System.out.println(e);
        code = Code();
    }

    return code;
}

public static void main(String args[]) {

    String name = Name();
    int age = Age();
    int code = Code();

    System.out.println("\nApplicant Information");
    System.out.println("Name      : "+ name);
    System.out.println("Age       : "+ age);
    System.out.println("Pincode   : "+ code);
    if (age < 12) { System.out.println("Status   : Application Rejected"); }
    else { System.out.println("Status   : Application Accepted"); }
}
}

```

## Output:

```

Enter name:
Krishan Kumar

Enter D.O.B (yyyymmdd):
19950317

Enter Pincode:
400766

Applicant Information
Name      : Krishan Kumar
Age       : 25
Pincode   : 400766
Status    : Application Accepted

```