



# Worksheet 6

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**Branch:CSE-AIML** 

Semester:3rd

Subject Name: Programing in java

**UID:21BCS6615** 

Section/Group 21AIML-9(Grp A)

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**Subject Code: : 21CSH-244** 

# 1. Aim/Overview of the practical:

Write a program in Java to display name and roll number of students. Initialize respective array variables for 10 students. Handle ArrayIndexOutOfBoundsException, so that any such problem dose not cause illegal termination of program.

## 2. Algorithm:

Step-1 Start

Step-2 Create a class except.

Step-3 Declare two arrays for student name and student roll no.

Step-4 Take input from the user by creating a get\_data function.

Step-5 Use a try and catch statement to bypass the exception.

Step-6 Create a function to display the student names and student roll numbers.

Step-7 Stop.

#### 3. Code:

```
import java.util.Scanner;
class exp {
  public static void main(String[] args) {
    except obj1=new except();
    obj1.get data();
    obj1.displayArray();
class except {
  String name[]=new String[10];
  int marks[]=new int[10];
  int n=10;
  Scanner scan=new Scanner(System.in);
  void get data()
    try
       for(int i=0;i \le n;i++)
         System.out.println("Enter the name of the student "+(i+1)+": ");
         name[i]=scan.nextLine();
catch(ArrayIndexOutOfBoundsException a)
```







#### Output:

```
at mst.main(mst.java:16)

PS D: Java or "d: Java" ; if ($) ( java exp.java ) ; if ($) ( java exp )

Enter the name of the student 1:

uday

Enter the name of the student 3:

mayonik

Enter the name of the student 4:

Enter the name of the student 5:

Enter the name of the student 5:

Enter the name of the student 6:

anuthorita

Enter the name of the student 7:

Enter the name of the student 7:

Enter the name of the student 8:

enter the name of the student 8:

enter the name of the student 8:

enter the name of the student 9:

Enter the name of the student 10:

chruv

Enter the name of the student 11:

Enter the name of the student 12:

Enter the name of the student 1:

Enter the noll no of the student 1:

Enter the roll no of the student 4:

Stall

Enter the roll no of the student 4:

Stall

Enter the roll no of the student 4:

Stall

Enter the roll no of the student 4:

Stall

Enter the roll no of the student 5:

Stall

Enter the roll no of the student 6:

343

Enter the roll no of the student 7:

5422

Enter the roll no of the student 8:

344

Enter the roll no of the student 9:

5778

Enter the roll no of the student 9:

5778

Enter the roll no of the student 10:

340

Enter the roll no of the student 10:

578

Enter the roll no of the student 10:

579

Enter the roll no of the student 10:

579

Enter the roll no of the student 10:

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Enter the roll no of the student 10:

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Enter the roll no of the student 10:

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Enter the roll no of the student 10:

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Enter the roll no of the student 10:

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Enter the roll no of the student 10:

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Enter the roll no of the student 10:

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Enter the roll no of the student 10:

570

Enter the roll no of the student 10
```







```
Names of the students are :
akrit
mayank
rishab
gautam
anushmita
shubham
ankur
sheetal
dhruv
Roll number of the students are :
2134
4543
7645
5545
5523
3545
5422
324
9778
PS D:\java> []
```

### **Learning outcomes (What I have learnt):**

- Understand the concept of creating class.
- Understand the concept of default constructor of the class.
- Understand the concept of a new operator.
- Understand the concept of conditional statements in java.

# **Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

Sr. No.	<u>Parameters</u>	Marks Obtained	Maximum Marks
<u>1.</u>	<u>Viva</u>		<u>10</u>
<u>2.</u>	<u>Performance</u>		<u>12</u>
<u>3.</u>	Worksheet		8

