



# **LAB INDEX**

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UID: 21BCS8197
SUBJECT NAME: PBLJ (Lab)
SUBJECT CODE: 20CSP-321

**SECTION:** 20BCS\_WM-616/A

Sr.	Program	Date	Evaluation			Sign	
No			LW (12)	VV (10)	FW (8)	Total (30)	
1.	Create an application to save the employee information using arrays.	16/08/2022					
2.	Design and implement a simple inventory control system for a small video rental store.	20/08/2022					
3.	Create a application to calculate interest for FDs, RDs based on certain conditions using inheritance.						







# CHANDIGARH UNIVERSITY UNIVERSITY INSTITUTE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Sa	ahil Kaundal	Submitted To: Neeru Sharma
Subject Name	Programming Base	d Learning Java (Lab)
Subject Code	20CSP-321	
Branch	Computer Science I	Engineering
Semester	5th	







## **Experiment 3**

Student Name: Sahil Kaundal UID: 21BCS8197

**Branch:** BE CSE (Lateral Entry) **Section/Group:** 616/A

Semester: 5th Date of Performance: 27/08/2022

Subject Name: PBLJ Lab Subject Code: 20CSP-321

#### 1. Aim/Overview of the practical:

Create an application to calculate interest for FDs, RDs based on certain conditions using inheritance.

#### 2. Apparatus / Simulator Used:

- Eclipse IDE (Java)
- NetBeans.

## 3. Algorithm/Flowchart:

- Make account class.
- Using method overriding create interest calculate.
- Create FD, Rd and SD.
- Take input of amount and age and days for FD.
- Take input of saving account and NRI and non NRI.
- For Rd take amount and month and age as input.
- Create a launcher class

### 4. Programs/ Code:

```
package Exp3;
import java.util.Scanner;
public class InterestCalculator {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("SELECT THE OPTIONS " + "\n1." + " Interest Calculator-SB"
+ " \n2." + " Interest Calculator-FD" + "\n3." + " InterestCalculator-RD" + "\n4 " + "
Exit"):
```







```
System.out.println("Interest gained is : Rs " +
sb.calculateInterest(amount));
                } catch (InvalidAmountException e) {
                    System.out.println("Exception : Invalid amount");
                    FDaccount fd = new FDaccount();
                    System.out.println("Invalid Age Entered");
                } catch (InvalidAmountException e) {
rd.calculateInterest(Ramount));
                System.out.println("Wrong choice");}
```







```
InvalidDaysException;
           throw new InvalidAmountException();
           throw new InvalidDaysException();
```







```
class InvalidMonthsException extends Exception{}
           throw new InvalidAmountException();
           throw new InvalidMonthsException();
```







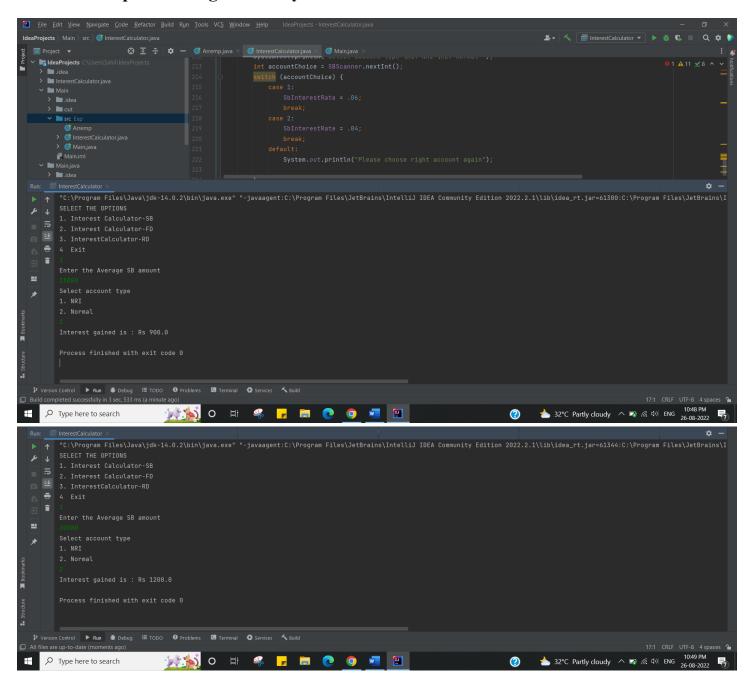
```
Scanner SBScanner = new Scanner(System.in);
double calculateInterest(double amount) throws InvalidAmountException{
```







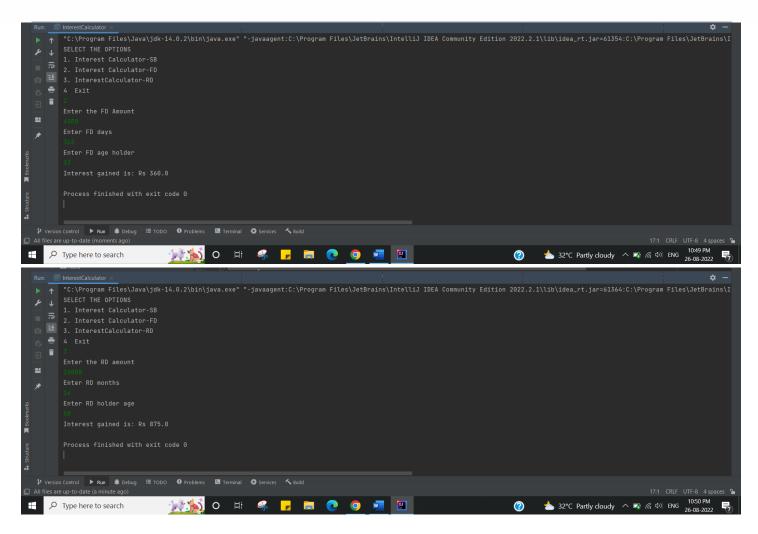
### 5. Result/Output/Writing Summary:











I have successfully done this program.

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

- 1. Here we have learnt the Concept of Inheritance with the Abstract class
- 2. And finding the Interest, SB, RD & FD based on the Amount, Citizenship and Age group.

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

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			







2.		
3.		