Date: 18-11-2022

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Course Code & Name: 2CS302 - Object Oriented Programming

Practical No: 9(A)

Aim: Try – Catch Implementation.

Methodology Followed:

```
import java.util.*;
```

```
m.divideNum(num1, num2));
```

Input/Output:

```
Which operation do you want to perform:

1. Mean of entered elements in an array.

2. Division of two numbers.

1
Enter size of an array.

5
1 2 3 4 0
Mean is: 2.0

Which operation do you want to perform:

1. Mean of entered elements in an array.

2. Division of two numbers.

2
Enter 2 Numbers: 1 0
Caught java.lang.ArithmeticException

Which operation do you want to perform:

1. Mean of entered elements in an array.

2. Division of two numbers.

2
Enter size of an array.

1 - 2 3 - 2 - 4
Caught InvalidNumber[-2]
```

Practical No: 9(B)

Aim: Try – Catch Implementation.

Methodology Followed:

```
import java.util.*; //importing packages*
class LowBalanceException extends Exception
{
    public LowBalanceException(String s)
    {
        super(s);
    }
}
class NegativeAmountException extends Exception
{
    public NegativeAmountException(String s)
    {
        super(s);
    }
}
class BankAccount
{
    int accNo;
    String custName;
    String accType;
    float balance;
    //Constructor*
    BankAccount(int accNo,String custName, String accType,float balance)
    {
        reconstructor*
        BankAccount(int accNo,String custName, String accType,float balance)
    }
}
```

```
void Withdraw(String accType, float amt)
```

```
amt=sc.nextFloat();
```

Input/Output:

```
C:\Users\NAITIK\.jdks\openjdk-19.8.1-1\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022
Enter account number: 251
Enter customer name: NotEtB
Enter account type: Savings
Enter account type: Savings
Enter opening amount to deposit: 1300
Enter 1 to Deposit
Enter 2 to Withdraw
Enter 3 to Check balance

Finer amount to be deposited:1900
Present available balance: 16308.0
Enter 1 to continue banking
Enter 2 to exit:
Enter 1 to Deposit
Enter 3 to Check balance

There 3 to Check balance

NegativeAmountException: Negative value exception
Enter 1 to continue banking
Enter 2 to exit:
Enter 1 to Deposit
Enter 2 to withdrawed: 1000
Enter a positive value
NegativeAmountException: Negative value exception
Enter 3 to Check balance

There 3 to Check balance

There 4 to Deposit
Enter 5 to Withdraw
Enter 5 to Withdraw
Enter 7 to Check balance

There 6 to Mithdraw
Enter 7 to Check balance

There 7 to Deposit
Enter 8 to Check balance

There 8 to Check balance

There 9 to Withdraw
Enter 9 to Withdraw
Enter 1 to Deposit
Enter 1 to Deposit
Enter 2 to Withdraw
Enter 3 to Check balance

There 8 to Check balance

There 9 to Withdraw
Enter 9 to Check balance

There 9 to Withdraw
Enter 9 to With
```

```
Enter 1 to continue banking

Enter 2 to exit

Enter 1 to Deposit

Enter 2 to Withdraw

Enter 3 to Check balance

3

Account number: 231

Custmor name: Naitik

Account type: Savings

Your Balance: 16300.0

Enter 1 to continue banking

Enter 2 to exit2

Process finished with exit code 0
```

```
C:\Users\NAITIK\.jdks\openjdk-19.0.1-1\bin\java.exe "-javaagent:C:\Program Files\Jet8rains\IntelliJ IDEA Community Edition 2022.2.3\lib
Enter custommer name : Moitk
Enter custommer name : Moitk
Enter account type: Custom
Enter opening amount to deposit: 3000
Enter 1 to Deposit
Enter 2 to Withdraw
Enter 3 to Check balance

Enter amount to be withdrawed:108
Enter amount exception: Amount cannot be less than 5000
Enter 1 to continue banking
Enter 2 to withdraw
Enter 2 to Withdraw
Enter 3 to Check balance
Enter 1 to Deposit
Enter 1 to Deposit
Enter 2 to Withdraw
Enter 3 to Check balance
Enter 2 to withdraw
Enter 3 to Check balance
Enter 1 to Deposit
Enter 1 to Deposit
Enter 1 to Deposit
Enter 2 to Withdraw
Enter 3 to Check balance
Enter amount to be deposited:2108
Present available balance: 5100.0
Enter 1 to continue banking
Enter 2 to withdraw
Enter 3 to Check balance
Enter 1 to Deposit
Enter 1 to Deposit
Enter 2 to withdraw
Enter 3 to Check balance
```

```
Enter 1 to continue banking
Enter 2 to exit:
Enter 1 to Deposit
Enter 2 to Withdraw
Enter 3 to Check balance
2
Enter amount to be withdrawed:100
Insufficient amount exception----you cannot withdraw
LowBalanceException: Amount cannot be less than 5000
Enter 1 to continue banking
Enter 2 to exit:

Process finished with exit code 0
```

CONCLUSION: - FROM THIS PRACTICAL WE HAVE LEARNT THE CONCEPT OF EXCEPTION HANDLING AND KEYWORDS LIKE TRY CATCH, FINALLY, CUSTOM EXCEPTIONS.

