

EXCEPTION PROGRAM

1.program

```
import java.util.Scanner;

class ExpOne
{
    public static void main(String arg[])
    {
        try
        {

            int a,b,c;
            Scanner KB=new Scanner(System.in);

            System.out.print("Enter first number : ");
            a=KB.nextInt();

            System.out.print("Enter second number : ");
            b=KB.nextInt();
            c=a/b;
            System.out.println("Result:"+c);
        }
        catch(ArithmeticException e)
        {
            System.out.println("Error:"+e.getMessage());
            System.out.println("Error:"+e);
        }

        System.out.println("End of Program...");
    }
}
```

OUTPUT FOR 1 st :

```
C:\Users\GLMACHAD\Documents>java ExpOne
```

Enter first number : 60

Enter second number : 30

Result:2

End of Program...

```
C:\Users\GLMACHAD\Documents>java ExpOne
```

Enter first number : 8

Enter second number : 0

Error:/ by zero

Error:java.lang.ArithmeticException: / by zero

End of Program...

2.program

3a.program on bank balance

```
import java.util.Scanner;
```

```
class MinimumAccountBalance extends Exception {
```

```
    String message;
```

```
    public MinimumAccountBalance(String message) {
```

```
        this.message = message;
```

```
    }
```

```
    public String toString() {
```

```
        return message;
```

```
    }
```

```
}
```

```
public class ExpThreea {
```

```
    static double current_balance = 100;
```

```
    public static void main(String[] args) throws MinimumAccountBalance {
```

```
        Scanner s = new Scanner(System.in);
```

```

System.out.println("Enter amount to withdrawal");

int n = s.nextInt();

try {
    if (current_balance < n) {
        throw new MinimumAccountBalance("Insufficient Balance ! your Current balance is " +
current_balance);
    } else {
        System.out.println("Please Take The Money : " + n);
    }
} catch (MinimumAccountBalance mab) {
    mab.printStackTrace();
}
}
}

```

Output:

C:\Users\GLMACHAD\Documents>javac ExpThreea.java

C:\Users\GLMACHAD\Documents>java ExpThreea

Enter amount to withdrawal

5000

Insufficient Balance ! your Current balance is 100.0

at ExpTwo.main(ExpTwo.java:27)

C:\Users\GLMACHAD\Documents>java ExpThreea

Enter amount to withdrawal

50

Please Take The Money : 50

C:\Users\GLMACHAD\Documents>

3b.program

```
import java.util.Scanner;

public class IllegalBankTransactionException {

    static void fun() throws IllegalAccessException

{
    double balance = 1000, wamount;

    Scanner wd=new Scanner(System.in);
    System.out.print("Withdraw an amount:");

    wamount=wd.nextInt();

    balance -= wamount;
    wd.close();

    if (wamount<0)
    {
        throw new IllegalAccessException();
    }
    else if (balance<0)
    {
        System.out.println("Insufficient Balance");
    }
    else {
        System.out.println("Your reamining balance is:"+balance);

    }

}
```

```
public static void main(String args[])
{

    try
    {
        fun();
    }
    catch(IllegalAccessException ex)
    {
        System.out.println("IllegalBankTransaction");
    }
}
}
```