**Assignment 4**

Write the programs to test the following

1. Can there be a try block without a matching catch block?

Try block either need a corresponding catch block or a finally block. If there is finally block, catch block can be exempted.

1. Can there be a catch block without a matching try block?

No

1. Can there be a finally statement that is not attached to a try-catch block?

No

1. Can there be a try block with out catch but with only finally.

Yes

1. Does an exception have to be handled by the same try-catch block that threw it?

No

1. How can you make sure you catch every exception that a statement may throw?

Either we can use multiple catch blocks or an have a nested catch block with Exception reference at last.

1. Write a program in which constructor throws an exception and test where to handle it.
2. Write a program which catches an NullPointerException and re throws as a user defined exception(MyNullPointerException which is a checked exception)
3. Write the program to test nested try catch
4. Create a class which implements AccountOperationsInterface

Interface AccountOperationsInterface

{

public double deposit(double amt) throws AccountBlockedException

public double withdraw(double amt) throws AccountBlockedException,InsufficientBalanceException

public double getBalance() throws AccountBlockedException

public void blockAccount();

}

Write a class Account which implements the above interface and provide necessary methods and properties.

Test the methods by throwing Exceptions and processing them for the following:

1. If account is blocked, the customer cannot deposit and withdraw, hence it should throw the appropriate exception.
2. If amount exceeds the available balance, it should throw appropriate exception.