Assignment: Day9

Question1:

Create a user-defined checked exception called **InsufficientFundsException.**

Create a class called Account with 2 fields:

accountNumber;

balance;

and define the following 2 methods inside the Account class:

1. deposit(amount): void

2. withdraw(amount): double

Create an AccountDemo class with the main method and perform the following task:

- Create the Account class object by passing the Account number.

- You can deposit the amount into that account by invoking the deposit() method by passing the deposit amount as an argument.

- If you have a balance in your account, you have to withdraw the amount by invoking the withdraw() method by passing a suitable amount as an argument. But, if your requested amount is more than the available balance, you have to generate the "InsufficientFundException" object and the same have to be thrown to the caller (with the suitable message).

  Note: make sure the application should be terminated normally.

Question 2:

Create a Customer bean class with the following fields:

username: String

password: String

mobileNumber: String

email: String

Create a Demo class with the main method and perform the following tasks:

take the input from the user and create an object of the Customer with all the details.

make sure that to perform the following input validations:

username: should contain only alphabets and length should be min 3 and max 8 characters.

password: should be alpha-numeric and also min 3 and max 8 characters.

mobileNumber: should be an Indian mobile number starting with 6,7,8,9 and the length should be 10.

email: a valid email address.

If all input fields are valid then only create an object of Customer and print all the details from the Customer object.

otherwise, print the appropriate validation error message.

Question 3:

Create an enum called Month with the all month from JAN to DEC.

Create a class Demo that define a method called :

showDetails(Month m): void

inside this method switch on the Month enum and display the details of the Month :

Example:

If Month = JAN then print **"This is the 1st Month of the Year January"**

If Month = FEB then print **"This is the 2nd Month of the Year February"**

as it is till Month DEC

call the above showDetails() method by taking the input month name from the user.

if the user supplies any wrong month name then handle the exception and print the proper message : **Invalid Month Name**

Question 4:

What is the difference between the Checked and Unchecked exceptions explain it with an example? How to create a User-defined unchecked exception class.