Aim: Greate, debug and run java programs based on user defined exception

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Theory:

What are user defined exceptions?

- To Java, we can create our own exceptions that are derived classes of the Exception classes.
 - · Creating our own exception is known as custom exception or user defined exception.
 - · Basically, the custom exceptions in Java are used to customize the exception according to user need.

Why should we use rustom exeptions?

· To catch and provide specific treatment to a subset of existing java exceptions.

Syntax:

public class className extends Exception &

public class Name (parameter) {
Statement (s);

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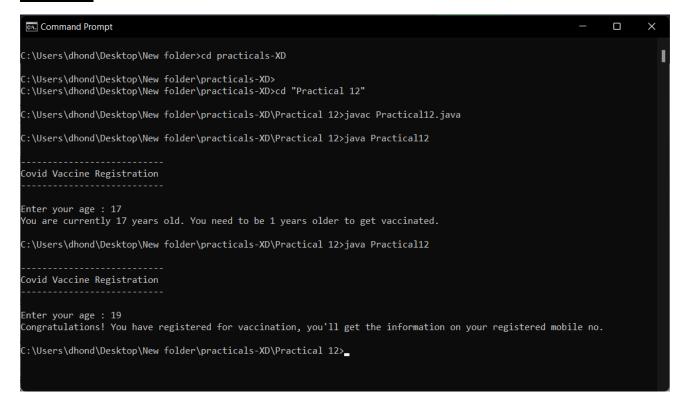
Conclusion:

Hence, I learnt about the concept of user defined exception handling and developed, debugged and executed programs hased on the concept.

Code:

```
import java.util.InputMismatchException;
import java.util.Scanner;
class InvalidAgeForVaccinationException extends Exception{
    InvalidAgeForVaccinationException(int age){
        int requiredYears = 18 - age;
       System.out.println("You are currently " + age + " years old. You need to be
 + requiredYears + " years older to get vaccinated.");
class Practical12{
    public static int setAge(){
       Scanner sc = new Scanner(System.in);
       int age = 0;
       try{
            System.out.print("Enter your age : ");
            age = sc.nextInt();
        }catch(InputMismatchException e){
            System.out.println("Wrong input, please re-enter age again");
            age = setAge();
        }catch (Exception e){
            System.out.println("Unexpected error : ");
            System.out.println(e);
            System.out.println("Setting age to 0.");
       }finally {
           return age;
   public static void main(String[] args) {
    System.out.println("\n----\nCovid Vaccine
Registration\n----\n");
       Scanner sc = new Scanner(System.in);
       int age;
       try{
            age = setAge();
            if(age < 18){
               throw new InvalidAgeForVaccinationException(age);
```

Output:



Conclusion:

Hence, I learnt about the concept of user defined exception handling and developed, debugged and executed programs based on the concept.