

Result & Analysis

Attempt 1

of 01



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Test	REC_2028_OOPS using Java_Week 8_MCQ
Course	2024_28_III_OOPS Using Java Lab

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1 MCQ (15)

Question No: 1**Multi Choice Type Question**

What will be the output for the following code?

```
1 import java.io.*;
2
3 class NegativeAgeException extends Exception {
4     public NegativeAgeException(String message) {
5         super(message);
6     }
7 }
8
9 class Test {
10    public static void main(String[] args) {
11        try {
12            int age = -5;
13            if (age < 0) {
14                throw new NegativeAgeException("Age cannot be negative");
15            }
16        } catch (NegativeAgeException e) {
17            System.out.println(e.getMessage());
18        }
19    }
20}
```

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Write a program to validate the email address and display suitable exceptions if there is any mistake.

Create 3 custom exception classes as below

1. DotException
2. AtTheRateException
3. DomainException

A typical email address should have a ". " character, and a "@" character, and also the domain name should be valid. Valid domain names for practice be 'in', 'com', 'net', or 'biz'.

Display **Invalid Dot usage**, **Invalid @ usage**, or **Invalid Domain** message based on email id.

Get the email address from the user, validate the email by checking the above-mentioned criteria, and print the validity status of the input email address.

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

Elsa, a busy professional, is using a scheduling application to plan her meetings efficiently. The application requires users to input meeting durations in minutes, ensuring that the duration is a positive integer and does not exceed 240 minutes (4 hours). Elsa needs a program to assist her in scheduling meetings securely with proper exception handling.

1. Create a Java class named ElsaMeetingScheduler.
2. Implement a custom exception:
 - a. **InvalidDurationException** for invalid meeting duration entries.
3. Implement the main method to interactively take user input for a meeting duration.
4. Implement the validateMeetingDuration method to validate the meeting duration based on the specified rules and throw a custom exception if the validation fails.
5. Print appropriate success or error messages based on the meeting duration.

Implement a custom exception, **InvalidDurationException**, to handle cases where the entered meeting duration does not meet the specified criteria.

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

In a user registration system, there is a requirement to implement a username validation module. Users attempting to register must adhere to specific criteria for their usernames to be considered valid.

Your task is to develop a program that takes user input for a desired username and validates it according to the following rules:

1. The username must not contain any spaces.
2. The username must be at least 5 characters long.

Implement a custom exception, **InvalidUsernameException**, to handle cases where the entered username does not meet the specified criteria.

Input format :

The input consists of a string **S**, representing the desired username.

Output format :

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

A local municipality is implementing an online voting system for a community event and wants to ensure that only eligible voters (those aged 18 or older) can participate.

Your task is to develop a program that validates the age of individuals attempting to vote online. If the user's age is below 18, the program should throw a custom exception, **InvalidAgeException**, preventing them from casting their vote. If the input is invalid, catch the appropriate **InputMismatchException** and print the in-built exception message.

Input format :

The input consists of an integer representing the age.

Output format :

If the age is 18 or older, print "**Eligible to vote**"

If the age is below 18, print "**Exception occurred: InvalidAgeException: Age is not valid to vote**"

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1 Coding (1)

Question No: 1**Single File Programming Question****Problem Statement**

In a file management system, users are required to provide a valid file name when creating new files. The system enforces specific rules for file names to maintain consistency and avoid potential issues. Your task is to implement a Java program named **FileNameValidator** that takes user input for a file name and validates it according to the specified rules.

Rules for Valid File Name:

1. The file name must consist of alphanumeric characters (letters and digits) only.
2. The file name must have a minimum length of 3 characters.

Implement a custom exception, **FileNameValidator**, to handle cases where the entered filename does not meet the specified criteria.

Input format :

The input consists of a string **S**, representing the desired filename.

Output format :

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1 Coding (4)

Question No: 1**Single File Programming Question****Problem Statement**

Enigma is developing a simple web application that takes a user-input URL, validates it, and throws a custom exception **InvalidURLException** if the URL does not start with "**http://**" or "**https://**".

The main method prompts the user for input, validates the URL, and prints whether it is valid or not.

Input format :

The input consists of a string, representing the URL entered by the user.

Output format :

The output displays one of the following results:

If the entered URL is valid according to the specified format, the program prints:

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1 Coding (4)

**Question No: 1****Single File Programming Question****Problem Statement**

A company is developing a user registration system that requires users to provide valid email addresses. The development team is implementing an EmailValidator program to ensure that the entered email addresses meet certain criteria using exception handling.

1. The email address must contain the "@" symbol.
2. The email address must consist of a non-empty username(before "@" symbol) and a non-empty domain(after "@" symbol).
3. The domain part of the email address must contain at least one period (".").
4. The email address must not contain leading or trailing spaces.

Implement a custom exception, **InvalidEmailException**, to fulfill the company's requirements and validate it according to the specified rules.

Input format :

The input consists of a string value 's', which represents the email address.