IDFC-JFS-B2

Subjective Assessment -2

(Each question carries 20 marks)

1. Create a functional Interface with a function operation(). Write a Program to do basic Math Operation (add, sub, multiply, divide) using Lambda Expression (each object should perform each operation)

2. Create a function- find Power (int num) in a class which prints the power of numbers from 1 to 6. Create 3 threads that calls the function in a synchronized as well as non-synchronized way.

3. Perform Exception Handling for this scenario wherever it is required. Input an array of numbers and a divisor. computeSum() function should calculate the sum of arrays. computeQuo() should find the quotient obtained by dividing the sum of numbers by divisor. computeStatus() is a function which throws an exception if the sum of array numbers in less than 50

4. User is prompted to enter a password. If the password does not satisfy the following criteria, an exception is thrown as a weak password.

   A password is said to be strong if it satisfies the following criteria:

   1. It contains at least one lowercase English character.

   2. It contains at least one uppercase English character.

   3. It contains at least one special character. The special characters are: ! @ # $ % ^ & * ( ) - +

4. Its length is at least 8.

5. It contains at least one digit.

5.   Banking Application - Create a simple java code to implement Banking Application. Make sure these 4 functions are present (Transfer amount, View Balance, Deposit, Withdraw)

Apply the following java concepts in your program and update the following inference

- Classes & Objects
- Default Constructor
- Parameterized constructor
- Constructor Overloading
- Inheritance (with the type used & diagram)
- Java Concept Where u used Y u used
- Use of getter & setter method.
- This
- Static variable
- Static function