**Java Skill Based Questions**

1. Write a program to read a string and validate PAN no. against following

rules

1. There must be ten characters.

2. First five letters must be alphabets followed by four digit number

and ends with alphabet

3. All alphabets should be in capital case.

1. Create user defined exceptions called InvalidAgeException and InsufficientAgeException, which has to be thrown when user enters a negative age and if user enters age less than 18 then it has to throw InSufficientAgeException , else has to show eligible for voting.
2. Write a java program to read student objects in a ArrayList and display the student result based on the condition that marks>=80, distinction, between 60 and 79 as First class, between 50 and 59 as Second class, else fail, and display only students who are passed.

Note; Test the pass condition by using Java8 Predicate, find the class by using Function and display the results using Consumer predefined interfaces.

1. Write a program that performs the following actions:
2. Read 2n integers as input & a set operator (of type char).
3. Create two arraylists to store n elements in each arraylist.
4. Write a function **performSetOperations**which accepts these two arraylist and the set operator as input.
5. The function would perform the following set operations:.

'+' for SET-UNION

'\*' for SET-INTERSECTION

'-' for SET-DIFFERENCE

1. Return the resultant arraylist.

Include a class UserMainCode with the static method **performSetOperations** which accepts two arraylist and returns an arraylist.

Create a Class Main which would be used to read 2n+1 integers and call the static method present in UserMainCode.

1. Write a JDBC program to read Employee(name,id,dept,desg,company,emailed) from the user and insert into mysql table called employee.