

Week 17 Lab

Question 1

1. Create an abstract class Employee with the following:
 - a. Instance variable: ArrayList<String> employees
 - b. Methods:
 - search(String name): check if the name exists in array list and print the appropriate message
 - c. Abstract methods:
 - add(String name)
 - remove(String name)
2. Create a class EmployeeManager with the following: **inherit Employee class**
 - a. Implemented methods:
 - add(String name): check if name exists in array list and add the name in array list if the name is not present. Print the message after adding the name
 - remove(String name): remove the name from array list and print the message after removing the name,
 - b. main method -
 - Using scanner, input 5 names and call add method each time
 - Input a value and call search method **object.search(name);**
 - Input two names and then remove some names by calling remove method

Question 2

1. Create an interface Airlines with the following:
 - a. Methods:
 - int getTotalAvailableSeats()
 - void printName()
 - boolean book(String name, String passportNo)
2. Create two classes NepalAirlines and BuddhAirlines implementing Airlines interface.
3. Create a class AirlinesRunner that runs all methods of each class.