**Salesforce Programmatic Model – 1**

**A] Create a class that contains below functions**

**Q1] Write a function that satisfy below mentioned conditions:**

1. Fetch all Project Task(Case) records from database.

2. Recieve all the fetched projectTask records into List.

3. Form the set of projectIds associated with projectTask from above list.

**Q 2] Write a function that satisfy below mentioned conditions:**

Pass Id of projectTask as input parameter and fetch the details of Project (any 5 fields) to which this projectTask is associated.

**Q 3]**  **Write a function that satisfy below mentioned conditions:**

Pass the instance of projectTask as input parameter with data filled into it's fields (any 3 fields other than required fields) to the function(create new function) and add a logic to save the record into database. If any of the exception occurs during the process develop custom logic that will give user friendly message (‘Error While saving record to database’ + message obtained from exception)

**Q 4]**  **Write a function that satisfy below mentioned conditions:**

List of characters = {'a', 'b', 'c', 'd', 'e', 'f', ‘a’, ‘b’ , ‘t’ , ‘w’, ‘e’ ,’z’ }

Create a method to form list of unique elements and list of duplicate elements (In optimised way)

**B] Create a class that contains below functions & create debug logs to track this class:**

Q 5] **Write a function that satisfy below mentioned conditions:**

Create a method that will recieve date as input parameter and return all the projectTasks(Case) having due date matching with provided input date

Q 6] **Write a function that satisfy below mentioned conditions:**

1. Fetch all projectTask records from database within limits (**Please do not filter the projectTask(Case) records using SOQL for collection variables and write a logic to acheive the below functionality**)

2. Create 3 collections as :

1. High priority tasks

2. Medium priority tasks

3. Low priority tasks

3. Store all project tasks that are created in last 24 hours into Low priority tasks

4. Store all project tasks that are created in more than 24 hours ago and within last 48 hours into Medium priority tasks

5. Store all project tasks that are created more than 96 Hours ago into High priority tasks

**Note :**

1. Create appropriate variables/collections wherever required
2. Try to use map appropriately if required
3. Try creating static final variable and assign it a value on initialization. Try to edit that value in some other method and see if value changes using logs.
4. Go through different collection methods (Google it for apex)
5. Make sure you commit code changes to your bitbucket branch
6. Complete basics of Apex module on trailhead