Round 2 code execution

```
import pandas as pd

collections = {}


def createCollection(p_collection_name):
    collections[p_collection_name] = pd.DataFrame()
    print(f"Collection '{p_collection_name}' created.")
def indexData(p_collection_name, p_exclude_column):
    if p_collection_name not in collections:
        print(f"Collection '{p_collection_name}' does not exist.")
        return
    try:
        df =
pd.read_csv('C:/Users/admin/OneDrive/Desktop/notes/c_programs/Employee_data.csv')  #
Adjust to your file path
        print(df.columns)
    except FileNotFoundError:
        print("CSV file not found. Please make sure the file is in the working directory.")
        return


    if p_exclude_column not in df.columns:
        print(f"Column '{p_exclude_column}' not found in the dataset.")
        return
    collections[p_collection_name] = df.drop(columns=[p_exclude_column], errors='ignore')
    print(f"Data indexed into collection '{p_collection_name}' excluding column
'{p_exclude_column}'.")
def searchByColumn(p_collection_name, p_column_name, p_column_value):
```

```
    if p_collection_name not in collections:
        print(f"Collection '{p_collection_name}' does not exist.")
        return

    result = collections[p_collection_name][collections[p_collection_name][p_column_name] == p_column_value]
    print(f"Search Results in '{p_collection_name}' for { p_column_name} = '{p_column_value}':")
    print(result)
def getEmpCount(p_collection_name):
    if p_collection_name not in collections:
        print(f"Collection '{p_collection_name}' does not exist.")
        return

    count = collections[p_collection_name].shape[0]
    print(f"Employee Count in '{p_collection_name}': {count}")
    return count
def delEmpById(p_collection_name, p_employee_id):
    if p_collection_name not in collections:
        print(f"Collection '{p_collection_name}' does not exist.")
        return
    initial_count = collections[p_collection_name].shape[0]
    collections[p_collection_name] = collections[p_collection_name][collections[p_collection_name]["Employee ID"] != p_employee_id]
    final_count = collections[p_collection_name].shape[0]
    if initial_count == final_count:
```

```
        print(f"Employee with ID '{p_employee_id}' not found in collection
'{p_collection_name}'.")
    else:
        print(f"Employee with ID '{p_employee_id}' deleted from collection
'{p_collection_name}'.")
def getDepFacet(p_collection_name):
    if p_collection_name not in collections:
        print(f"Collection '{p_collection_name}' does not exist.")
        return

    department_count = collections[p_collection_name]['Department'].value_counts()
    print(f"Department Facet for collection '{p_collection_name}':")
    print(department_count)
v_nameCollection = 'Hash_saiakshay'
v_phoneCollection = 'Hash_5699'
createCollection(v_nameCollection)
createCollection(v_phoneCollection)
getEmpCount(v_nameCollection)
indexData(v_nameCollection, 'Department')
indexData(v_phoneCollection, 'Gender')
delEmpById(v_nameCollection, 'E02003')
getEmpCount(v_nameCollection)
searchByColumn(v_nameCollection, 'Department', 'IT')
searchByColumn(v_nameCollection, 'Gender', 'Male')
searchByColumn(v_phoneCollection, 'Department', 'IT')
getDepFacet(v_nameCollection)
getDepFacet(v_phoneCollection)
```