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# -*- coding: utf-8 -*-
"""Mejia_Maria_TermProject
Automatically generated by Colaboratory.
Original file is located at
   https://colab.research.google.com/drive/1fGZrfRqJKWTW5SOMVxGOzxLOW2CLTtoV
# Maria Mejia
# Term Project INSY 3436 Programming with Python
#Import
import pandas as pd
df = pd.read_csv('students.txt', sep='\t', lineterminator='\r')
pd.set_option('display.max_rows', None)
#Welcome Message
print("Welcome To Query\n")
print("1. Display All Records")
print("2. Display Students With Last Name Beginning With A Letter")
print("3. Display Students Graduating In A Chosen Year")
print("4. Display Summary Report Students Graduating On & After A Chosen Year\n")
trv:
 #Ask User
 c = int(input("Enter Choice: "))
 print("")
 if c == 1:
   #Print All
   print(df)
  elif c == 2:
     #Ask The User For The Letter
      #Find First Letter Of Last Names
      #Only Keep Records With That Letter
      #Print Remaining Records
     letter = str(input("Select Letter: "))
     letter = letter.upper()
     print("ID Last
                          First GradYear
                                               GradTerm DegreeProgram")
     for i in range(len(df)):
       if df['Last'][i][0] == letter:
         print(df['ID'][i], " ", df['Last'][i], " ", df['First'][i], " ", df['GradYear'][i], " ", df['GradTerm'][i], " ", df[
'DegreeProgram'][i])
  elif c == 3:
     #Ask The User For The Year
     number = int(input('Select Grad Year (2019 - 2021):'))
     print("ID
                 Last First
                                    GradYear
                                                GradTerm DegreeProgram")
      #Find The Year Of Graduation
      #Only Keep Records With That Year
      #Print Remaining Records
      for i in range(len(df)):
       if df['GradYear'][i] == number:
         print(df['ID'][i], " ", df['Last'][i], " ", df['First'][i], " ", df['GradYear'][i], " ", df['GradTerm'][i], " ", df['
'DegreeProgram'][i])
      #If number is not an integer, then break and print the error
 elif c == 4:
      #Ask The User For The Year
     number = int(input('Select Grad Year (2019 - 2021):'))
      #Find The Year or Years Of Graduation On or After The Chosen Year
      #Only Keep Records With That/Those Years
      #Calculate Percentages For Each Program
      #Calculate The Amount Of Students In Each Program
     if number > 2021:
       print('No Data Record Available.')
#creates a new data frame for records matching the user's input for GradYear
       df c4 = pd.DataFrame(df[df['GradYear'] >= number]['DegreeProgram'].value_counts())
       df_c4['Percent'] = round(df_c4['DegreeProgram'] / df_c4['DegreeProgram'].sum(),3) * 100
       print('')
       print(df_c4)
#Prevents the user from inputting the wrong data type
except ValueError:
 print("\nA Wrong Type Of Value Was Entered. Please Try Again.")
df_c4['DegreeProgram'].sum()
```