Libraries for Options Module Code

from colorama import Fore  
import matplotlib.pyplot as plt  
import pandas as pd  
from time import sleep

Options List

########-----OPTIONS LIST-----########  
def options\_list():  
 print("\n\nPLEASE CHOOSE AN OPTION!")  
 print(f"\n\n{Fore.GREEN}[A] {Fore.WHITE}View Customer Info.")  
 print(f"\n{Fore.GREEN}[B] {Fore.WHITE}Show Credit Score.")  
 print(f"\n{Fore.GREEN}[C] {Fore.WHITE}Check Credit Score Bar Graph.")  
 print(f"\n{Fore.GREEN}[D] {Fore.WHITE}Enter new user data.")  
 print(f"\n{Fore.GREEN}[E] {Fore.WHITE}About the CSPA.")  
 print(f"\n{Fore.RED}[F] {Fore.WHITE}Exit.")  
########-----END OF OPTIONS LIST-----########

Bar Chart Function

########-----LOAN BAR CHART-----########   
def bar\_chart(category):  
 Number\_of\_Customer = category  
 Category = ['Poor','Fair','Good','Very Good','Exceptional']  
  
 print("check")  
 plt.bar(Category, Number\_of\_Customer)  
 plt.title('Credit Scores Categorization')  
 plt.xlabel('Category')  
 plt.ylabel('Number of Customer')  
 plt.show()  
#######-----------END OF BAR CHART-----------########

Viewing Customer ID Information

def askidshow():  
 Exit = False  
  
 while Exit == False:  
 newdataset = pd.read\_csv('data/Dataset\_Scored.csv')  
 askinputid = input(f"{Fore.GREEN}\nPlease enter Customer ID:")  
 try:  
 ifnum = int(askinputid)  
 if ifnum >=1 and ifnum <=122:  
 print(newdataset.iloc[ifnum-1])  
 print("\n")  
 print("(Press 'N' to exit anytime)")  
 else:  
 print("Sorry! That ID does not exist.")  
 continue  
 except:  
 if askinputid.capitalize() == 'N':  
 print(f"{Fore.RED}\nExiting... \n\n")  
 Exit = True  
 else:  
 print("Invalid input.")  
 continue

Ask user input for new data

def newuser(ID):  
#ask user input  
 LoanAmnt = input("\nEnter customer 'Current Loan Amount':")  
 CreditBal = input("\nEnter customer 'Current Credit Balance':")  
 MonthDebt = input("\nEnter customer 'Monthly Debt':")  
 YearsJob = input("\nEnter customer 'Years in current job':")  
 CredHist = input("\nEnter customer 'Years of Credit History':")  
 OpenAcc = input("\nEnter customer 'Number of Open Accounts':")  
 MonthDel = input("\nEnter customer 'Months since last delinquent':")  
 MaxOpCred = input("\nEnter customer 'Maximum Open Credit':")  
  
  
 dict = {'Customer ID': ID+1, 'Current Loan Amount': LoanAmnt, 'Current Credit Balance': CreditBal,  
 'Monthly Debt': MonthDebt, 'Years in current job': YearsJob, 'Years of Credit History': CredHist,  
 'Number of Open Accounts': OpenAcc, 'Months since last delinquent': MonthDel, 'Maximum Open Credit': MaxOpCred}  
  
   
  
 new = [ID+1,LoanAmnt,CreditBal,MonthDebt,YearsJob, CredHist, OpenAcc, MonthDel, MaxOpCred]  
 print("\n\nPlease review input: \n", dict)  
 sleep(1.50)  
  
 while True:  
   
 input1 = input("\n\nRedo information (Y/N)?: ")  
  
 if input1.capitalize() == "Y":  
 newuser(ID)  
  
 elif input1.capitalize() == "N":  
 break  
  
 else:  
 print('Wrong input.')   
  
  
 return dict