Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 41
FP Practical 4

Institute of Computer Technology
B. Tech Computer Science and Engineering

Sub: (2CSE403) FUNCTIONAL PROGRAMMING

Practical 4

1. A bank needs to validate authentication of the customers who have their accounts in it. Verification has to be done by analyzing the details entered by the customers; i.e. Bank should identify whether the details provided by customer are correct or not? Also depending on user age details, it should provide the future savings schemes.

   Note: Check the previous enter detail data type compare with required data (Like Name, Address, Contact no, Pin code, Hobbies, Life goal). Create multiple user account and check user enter name and their age category. If kid guide for education camps schemes, if teenager provide educational scholarship scheme and is middle aged guide for retirement plans.

Code :

```
import string



def bnkusr():
   print("\n\tWelcome to Kadi Nagarik Sahakari Bank Limited!\n")
   name = input("Enter your name : ")
   for i in name:
       while i not in string.ascii_letters + " ":
```

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```
        name = input("Please enter valid name : ")

addr: str = input("Enter your address : ")

cntct = input("Enter your contact : ")
while len(cntct) =/= 10 or not cntct.isdigit():
    cntct = input("Enter your valid contact : ")
cntct = int(cntct)

pin = input("Enter your pincode : ")
while len(pin) =/= 6 or not pin.isdigit():
    pin = input("Enter your valid pincode : ")
pin = int(pin)

hbs: str = input("Enter your hobbies : ")

goal: str = input("Enter your Life goal : ")

age = int(input("Enter your age : "))
while age < 0:
    age = int(input("Enter your valid age : "))

return name, cntct, addr, age, hbs, goal
```

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```
def schemes(name, cntct, addr, age, hbs, goal):
    if age <= 12:
        scheme = "You are eligible for Educational Camp Schemes :
https://www.india.gov.in/people-groups/life-cycle/kids"
    elif age <= 19 and age > 12:
        scheme = "You are eligible for Educational Scholarship Schemes :
https://www.aicte-india.org/schemes/students-development-schemes"
    else:
        scheme = "You are eligible for Retirement Plans :
https://www.policybazaar.com/life-insurance/pension-plans/"

    return name, cntct, addr, age, scheme, hbs, goal



def setDetails():
    n = int(input("Enter how many person want to register : "))
    details = {}
    users = []
    for i in range(n):
        name, cntct, addr, age, hbs, goal = bnkusr()
        name1, cntct1, addr1, age1, scheme1, hbs1, goal1 = schemes(name,
cntct, addr, age, hbs, goal)
        details["Name"] = name1
```

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```
        details["Age"] = age1
        details["Contact"] = cntct1
        details["Address"] = addr1
        details["Hobbies"] = hbs1
        details["Life Goal"] = goal1
        details["Scheme"] = scheme1
        users.append(details)
        i = i + 1
    return users


def getDetails(users: list):
    print("\n")
    for i in range(len(users)):
        for k, v in users[i].items():
            print(f"{k} : {v}")
    i = i + 1


users = setDetails()
getDetails(users)
```

Output :

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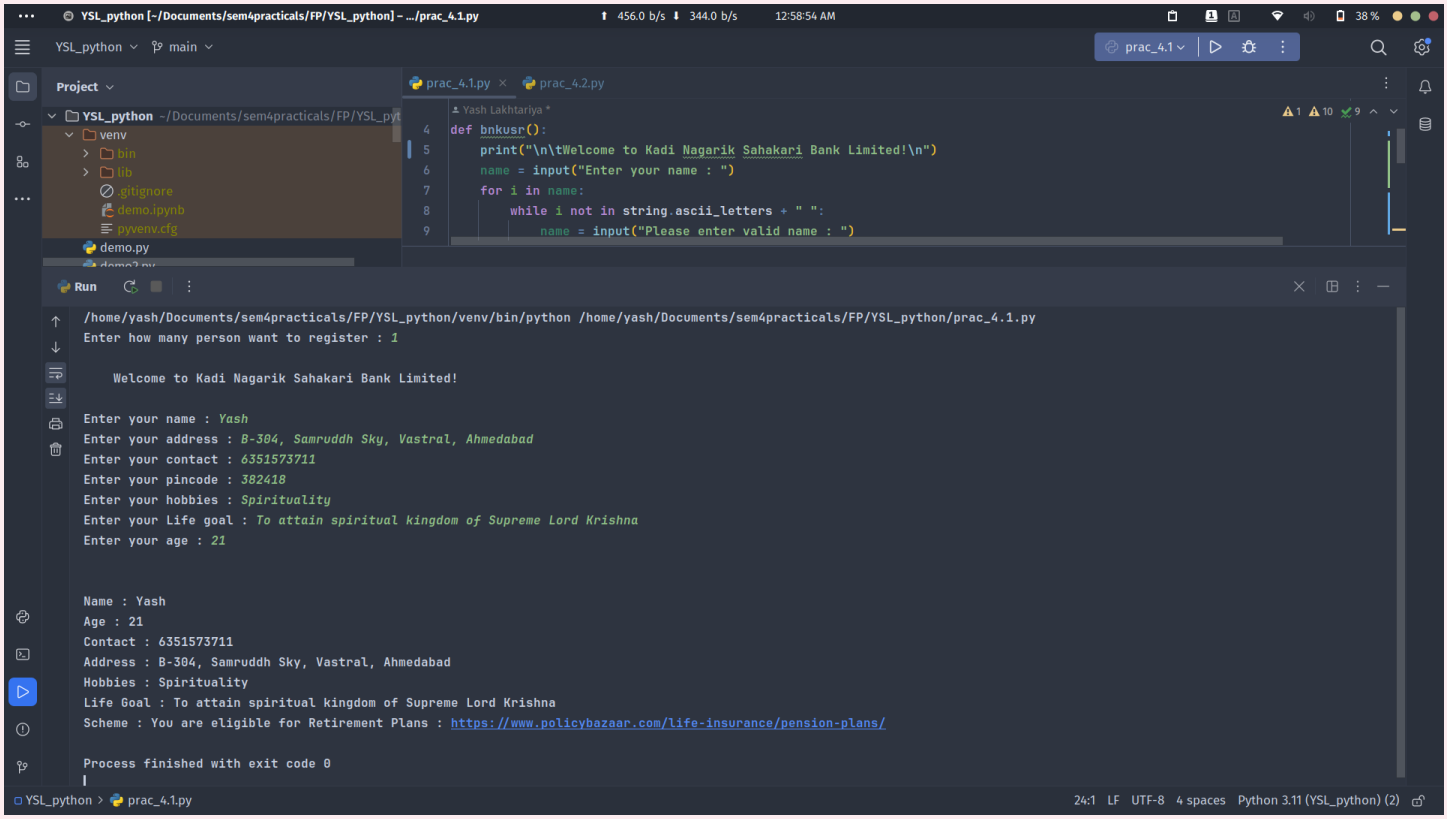

2. Pangrams are words or sentences containing every letter of the alphabet at least once. A student is asked to to check whether a string is a pangram or not. Help him to do so. For example: "The quick brown fox jumps over the lazy dog".

Code :

```
ysl = input("Enter a statement : ")
alpha =
{'a','b','c','d','e','f','g','h','i','j','k','l','m','n','o','p','q','r','
s','t','u','v','w','x','y','z'}
ysl = ysl.lower()
for i in ysl:
   if i in alpha:
```

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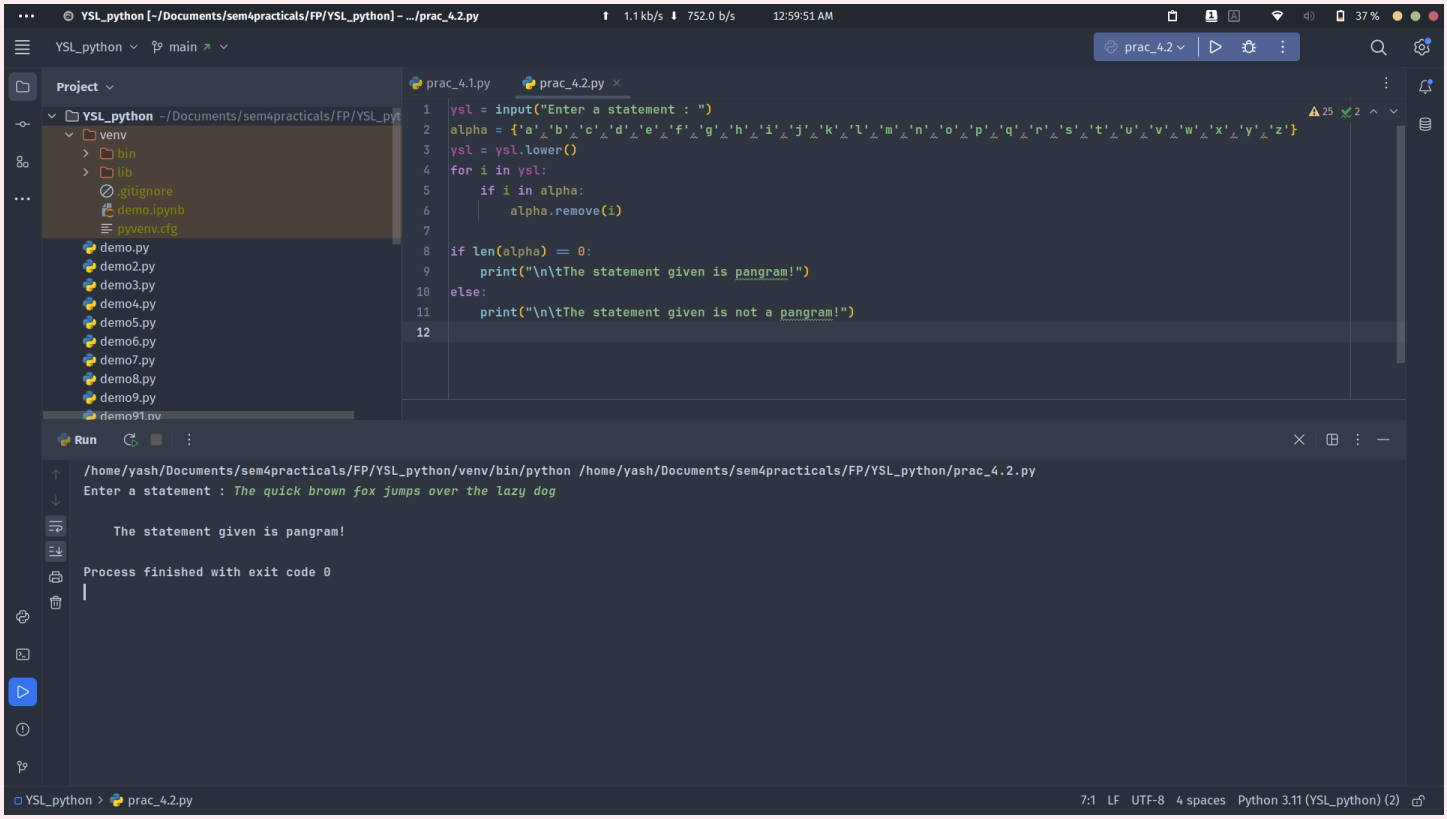
```
        alpha.remove(i)


if len(alpha) == 0:
    print("\n\tThe statement given is pangram!")
else:
    print("\n\tThe statement given is not a pangram!")
```

Output :

(Pangram)



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(Not pangram)