Ganpat University
॥ विद्यया समाजोत्कर्षः ॥
Institute of Computer Technology

Name: Tushar Panchal

En.No: 21162101014

Sub: FP(Functional Programming)

Branch: CBA

Batch:41

----------PRACTICAL 04----------

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.

✓ Source Code :

```
# Tushar's Prac 4.1
name = input("Please enter your name: ")
while name == "" or name.isdigit():
    print("Name cannot be empty")
    name = input("Please enter your name: ")
address = input("Please enter your address: ")
while address == "":
    print("Address cannot be empty")
    address = input("Please enter your address: ")
contact_no = input("Please enter your contact number: ")
while not contact_no.isdigit() or len(contact_no) != 10:
    print("Contact number must be 10 digits")
    contact_no = input("Please enter your contact number: ")
pin_code = input("Please enter your pin code: ")
while not pin_code.isdigit() or len(pin_code) != 6:
    print("Pin code must be 6 digits")
    pin_code = input("Please enter your pin code: ")
hobbies = input("Please enter your hobbies: ")
while hobbies == "":
    print("Hobbies cannot be empty")
    hobbies = input("Please enter your hobbies: ")
life_goal = input("Please enter your life goal: ")
while life_goal == "":
```

```
    print("Life goal cannot be empty")
    life_goal = input("Please enter your life goal: ")
age = input("Please enter your age: ")
while not age.isdigit():
    print("Age must be a number")
    age = input("Please enter your age: ")
if int(age) < 18:
    print("You are eligible for education camps schemes")
elif int(age) >= 18 and int(age) < 25:
    print("You are eligible for educational scholarship scheme")
elif int(age) >= 25:
    print("You are eligible for retirement plans")
```

✓ **Output :**

```
Please enter your name: Tushar
Please enter your address: New York
Please enter your contact number: 7777777
Contact number must be 10 digits
Please enter your contact number: 7777777777
Please enter your pin code: 123564
Please enter your hobbies: Gaming, Songs
Please enter your life goal: Hacker
Please enter your age: 69
You are eligible for retirement plans
PS C:\Users\tusha\Documents\SEM 4\PYTHON\CODES OF PRACTICALS>
```

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".

✓ **Source Code :**

```
# Tushar's Prac 4.2
import string
def ispangram(str):
    bond = "abcdefghijklmnopqrstuvwxyz"
    for char in bond:
        if char not in str.lower():
            return False
    return True

string = input("Enter the String: ")
if (ispangram(string) == True):
    print("YES")
else:
    print("NO")
```

✓ **Output :**

```
Enter the String: The quick brown fox jumps over the lazy dog
YES
PS C:\Users\tusha\Documents\SEM 4\PYTHON\CODES OF PRACTICALS>
```