

- Name: Aniruddhan N
- Program: Finlatics Data Science Experience/Internship Program

Q1) Write a Python program that takes user input for their name and greets the user.

- ✓ Then, prompt the user to enter two values. After receiving the values, swap them and print both the original values and the swapped values.

```
# Prompt the user to enter their name and store it in the variable 'name'
name = input("Enter your name: ")

# Greet the user with their name
print("Welcome to the Program")
print("Hello ",name)

print(" Here is your first program you need to code for: ")

# Prompt the user to enter the first number and convert it to an integer
num1 = int(input('Enter the first number: '))

# Prompt the user to enter the second number and convert it to an integer
num2 = int(input('Enter the second number: '))

# Print the original values of num1 and num2
print("Original number 1:", num1)
print("Original number 2:", num2)

# Swap the values of num1 and num2 using a temporary variable 'temp'
temp = num1
num1 = num2
num2 = temp

# Print the swapped values of num1 and num2
print("Swapped Number 1:", num1)
print("Swapped Number 2:", num2)
```

↩ Enter your name: Aniruddhan N
Welcome to the Program
Hello Aniruddhan N
Here is your first program you need to code for:
Enter the first number: 39
Enter the second number: 6990
Original number 1: 39
Original number 2: 6990
Swapped Number 1: 6990
Swapped Number 2: 39

```
print("Well done")
print("Now onto your second program")
print("Here is your next question: ")

↩ Well done  

Now onto your second program  

Here is your next question:
```

Q2) Write a Python program that asks the user to input the radius of a circle. Calculate the area of the circle using the formula $\text{area} = \pi * \text{radius}^2$, where π (pi) is a constant approximately equal to 3.14. Print out the calculated area. Ensure that the user input for the radius is converted to a float data type before performing calculations.

```
radius=int(input("Enter radius of circle:")) #input the radius
radius = float(radius) #type conversion to float
area=3.14*radius*radius #formula creation
print("Area of circle is:",area) # printing the area of the circle
```

```

Enter radius of circle:5
Area of circle is: 78.5

```

```

print("Well done")
print("Moving to the 3rd program")
print("Here is your next question: ")

```

```

Well done
Moving to the 3rd program
Here is your next question:

```

Q3) Write a Python program where the user is prompted to input their birth year. The program should then calculate and display the user's current age.

```

# Prompt the user to enter the birth year and birth month
birth_year = int(input("Enter your birth year: "))
birth_month = int(input("Enter your birth month (1-12): "))

# Current year and month
current_year = int(input("Enter the current ongoing year"))
current_month = int(input("Enter the current month:")) # Assuming the current month is June

# Calculate the initial age based on year difference
age = current_year - birth_year

# Check if the birth year is in the future
if birth_year > current_year:
    print("You are not born yet")
else:
    # Adjust age based on the month
    if birth_month > current_month:
        age -= 1
        months = 12 - (birth_month - current_month)
        print(f"You are: {age} years and {months} months old")
    elif birth_month == current_month:
        print(f"You are: {age} years old")
    else:
        months = current_month - birth_month
        print(f"You are: {age} years and {months} months old")

```

```

Enter your birth year: 2003
Enter your birth month (1-12): 10
Enter the current ongoing year:2024
Enter the current month:5
You are: 20 years and 7 months old

```

```

print("Well done")
print("Moving to the 4th program")
print("Here is your question:")

```

```

Well done
Moving to the 4th program
Here is your question:

```

Q4) Imagine you're a bakery owner and you want to personalize messages for your customers.

Write a Python program where customers are prompted to input their name and favorite cake flavor. The program should then print a customized message saying: "Hello, [name]! We're delighted to serve you your favorite [favorite_cake] cake on your birthday. Happy Birthday."

```
name= input("Enter your name:")
favorite_cake=input("Enter your favorite cake flavour:")
print(f"Hello {name}, We're delighted to serve you your favorite {favorite_cake} cake on your birthday. Happy Birthday!")
```

```
↵ Enter your name:Aniruddhan
Enter your favorite cake flavour:Butterscotch
Hello Aniruddhan, We're delighted to serve you your favorite Butterscotch cake on your birthday. Happy Birthday!
```

```
print("Well done")
print("Last but no the least")
print("Moving to the last and final program of the task 1")
print("Here is the question:")
```

```
↵ Well done
Last but no the least
Moving to the last and final program of the task 1
Here is the question:
```

Q5) Write a Python program to calculate the simple interest with user input for principal amount, rate, and time.

```
principal=float(input("Enter principal amount:"))
rate=float(input("Enter rate:"))
time=float(input("Enter time:"))
simple_interest=(principal*rate*time)/100
print("Simple interest is:",simple_interest)
```

```
↵ Enter principal amount:3000
Enter rate:4
Enter time:5
Simple interest is: 600.0
```

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