

prachiti-finlatics-capsule-1

May 2, 2024

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[1]: # Q1
name = input("Enter your name: ")
print("Hello,", name + "!")

# Prompt user to enter two values
value1 = input("Enter the first value: ")
value2 = input("Enter the second value: ")

# Print original values
print("Original values:", value1, value2)

# Swap the values
value1, value2 = value2, value1

# Print swapped values
print("Swapped values:", value1, value2)
```

```
Enter your name: Prachiti Kulkarni
Hello, Prachiti Kulkarni!
Enter the first value: 23
Enter the second value: 40
Original values: 23 40
Swapped values: 40 23
```

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[2]: # Q2
import math

radius = float(input("Enter the radius of the circle: "))
area = math.pi * radius ** 2
print("The area of the circle is:", area)
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```
Enter the radius of the circle: 5
The area of the circle is: 78.53981633974483
```

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[3]: # Q3
from datetime import datetime

birth_year = int(input("Enter your birth year: "))
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current_year = datetime.now().year
age = current_year - birth_year
print("Your current age is:", age)
```

Enter your birth year: 2003

Your current age is: 21

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[4]: # Q4
name = input("Enter your name: ")
favorite_cake = input("Enter your favorite cake flavor: ")

message = f"Hello, {name}! We're delighted to serve you your favorite_
↳{favorite_cake} cake on your birthday. Happy Birthday."
print(message)
```

Enter your name: Prachiti

Enter your favorite cake flavor: Chocolate

Hello, Prachiti ! We're delighted to serve you your favorite Chocolate cake on your birthday. Happy Birthday.

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[5]: # Q5
principal = float(input("Enter the principal amount: "))
rate = float(input("Enter the rate of interest (in percentage): "))
time = float(input("Enter the time period (in years): "))

simple_interest = (principal * rate * time) / 100
print("Simple interest:", simple_interest)
```

Enter the principal amount: 10000

Enter the rate of interest (in percentage): 12

Enter the time period (in years): 2

Simple interest: 2400.0

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[ ]:
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