Assignment - 5 Operators

September 4, 2022

1 Question 1. Write a python script to remove the last digit from a given number. (for example, if user enters 2534 then your output should be 253)

[1]:
```
number = int(input("Please,Enter a number "))
print("By removing the last digit your entered number becomes:",(number//10))

# number_by_removing_the_last_digit = (number//10)
# print("By removing the last digit your entered number becomes:
  ↪",number_by_removing_the_last_digit)
```

```
Please,Enter a number 2534
By removing the last digit your entered number becomes: 253
```

2 Question 2. Write a python script to get the last digit from a given number. (for example, if user enters 2089 then your output should be 9)

[2]:
```
number = int(input("Please,Enter a number "))
print("Last digit of your entered number is:",(number%10))

# last_digit_of_the_number = (number%10)
# print("Last digit of your entered number is:",last_digit_of_the_number)
```

```
Please,Enter a number 2089
Last digit of your entered number is: 9
```

3 Question 3. Write a python script to swap data of two variables.

4 Approach 1

[3]:
```
number_1 = float(input("Please,Enter the first number "))
number_2 = float(input("Please,Enter the second number "))
```

```
print("Before swaping value stored inside the two variables are:
  ↪",number_1,number_2)

number_1,number_2 = number_2,number_1

print("After swaping value stored inside the two variables are:
  ↪",number_1,number_2)
```

```
Please,Enter the first number 4.56
Please,Enter the second number 7.89
Before swaping value stored inside the two variables are: 4.56 7.89
After swaping value stored inside the two variables are: 7.89 4.56
```

5 Approach 2

[4]:
```
number_1 = float(input("Please,Enter the first number "))
number_2 = float(input("Please,Enter the second number "))

print("Before swaping value stored inside the two variables are:
  ↪",number_1,number_2)

number_1 = number_1 - number_2

number_2 = number_1 + number_2

number_1 = number_2 - number_1

print("After swaping value stored inside the two variables are:
  ↪",number_1,number_2)
```

```
Please,Enter the first number 4.56
Please,Enter the second number 1.23
Before swaping value stored inside the two variables are: 4.56 1.23
After swaping value stored inside the two variables are: 1.23 4.56
```

6 Approach 3

[5]:
```
number_1 = float(input("Please,Enter the first number "))
number_2 = float(input("Please,Enter the second number "))

print("Before swaping value stored inside the two variables are:
  ↪",number_1,number_2)

temporary = number_1

number_1 = number_2
```

```
number_2 = temporary

print("After swaping value stored inside the two variables are:
  ↪",number_1,number_2)
```

```
Please,Enter the first number 7.89
Please,Enter the second number 4.56
Before swaping value stored inside the two variables are: 7.89 4.56
After swaping value stored inside the two variables are: 4.56 7.89
```

7 Approach 4

[6]:
```
number_1 = float(input("Please,Enter the first number "))
number_2 = float(input("Please,Enter the second number "))

print("Before swaping value stored inside the two variables are:
  ↪",number_1,number_2)

number_1 = number_1 * number_2

number_2 = number_1 / number_2

number_1 = number_1 / number_2

print("After swaping value stored inside the two variables are:
  ↪",number_1,number_2)
```

```
Please,Enter the first number 1.23
Please,Enter the second number 4.56
Before swaping value stored inside the two variables are: 1.23 4.56
After swaping value stored inside the two variables are: 4.56 1.23
```

8 Approach 5 (Only for Integer Type Number)

[7]:
```
number_1 = int(input("Please,Enter the first number "))
number_2 = int(input("Please,Enter the second number "))

print("Before swaping value stored inside the two variables are:
  ↪",number_1,number_2)

number_1 = number_1 ^ number_2

number_2 = number_1 ^ number_2

number_1 = number_2 ^ number_1
```

```
print("After swaping value stored inside the two variables are:
  ↪",number_1,number_2)
```

```
Please,Enter the first number 6
Please,Enter the second number 8
Before swaping value stored inside the two variables are: 6 8
After swaping value stored inside the two variables are: 8 6
```

9 Question 4. Write a python script to find x power y, where values of x and y are given by user.

[8]:
```
number_1 = int(input("Please,Enter the first number "))
number_2 = int(input("Please,Enter the second number "))

print("Number_1 to the power of Number_2:",(number_1**number_2))
```

```
Please,Enter the first number 4
Please,Enter the second number 5
Number_1 to the power of Number_2: 1024
```

10 Question 5. Write a python script which takes a three digit number from the user and displays only its first digit.

[9]:
```
number = int(input("Please,Enter a three digit number "))

print("First digit of your entered three digit number is:",(number//100))

# first_digit_of_the_three_digit_number = (number//100)
# print("First digit of your entered three digit number is:
  ↪",first_digit_of_the_three_digit_number)
```

```
Please,Enter a three digit number 753
First digit of your entered three digit number is: 7
```

11 Question 6. Write a python script which takes a three digit number from the user and displays only its middle digit.

12 Approach 1

[10]:
```
number = int(input("Please,Enter a three digit number "))

print("Middle digit of your entered three digit number is:",((number%100)//10))

# middle_digit_of_the_three_digit_number = ((number%100)//10)
```

```
# print("Middle digit of your entered three digit number is:
  ↪",middle_digit_of_the_three_digit_number)
```

```
Please,Enter a three digit number 951
Middle digit of your entered three digit number is: 5
```

13 Approach 2

[11]:
```
number = int(input("Please,Enter a three digit number "))

print("Middle digit of your entered three digit number is:",((number//10)%10))

# middle_digit_of_the_three_digit_number = ((number//10)%10)
# print("Middle digit of your entered three digit number is:
  ↪",middle_digit_of_the_three_digit_number)
```

```
Please,Enter a three digit number 852
Middle digit of your entered three digit number is: 5
```

14 Question 7. Write a python script which takes a three digit number from the user and displays only its last digit.

[12]:
```
number = int(input("Please,Enter a three digit number "))

print("Last digit of your entered three digit number is:",(number%10))

# last_digit_of_the_three_digit_number = (number%10)
# print("Last digit of your entered three digit number is:
  ↪",last_digit_of_the_three_digit_number)
```

```
Please,Enter a three digit number 456
Last digit of your entered three digit number is: 6
```

15 Question 8. Write a python script to use IN operator to display the data present in the list.

[13]:
```
list1 = [0,1,2,3,4,5,6,7,8,9]

data = int(input("Please,Enter a data: "))

print("Your entered data is:",data)

print("Your entered data is present:",(data in list1))
```

```
Please,Enter a data: 8
Your entered data is: 8
```

```
Your entered data is present: True
```

16 Question 9. Write a python script to use NOT IN operator to display the data not present in list.

[14]:
```
list1 = [0,1,2,3,4,5,6,7,8,9]

data = int(input("Please,Enter a data: "))

print("Your entered data is:",data)

print("Your entered data is not present:",(data not in list1))
```

```
Please,Enter a data: 12
Your entered data is: 12
Your entered data is not present: True
```

17 Question 10. Write a python script to use IS operator to display if both variables are the same object or not?

[15]:
```
variable1 = (1,2,3)
variable2 = (1,2,3)

print("First variable is:",variable1)
print("Second variable is:",variable2)

print("Two variables are same object or not:",(variable1 is variable2))
```

```
First variable is: (1, 2, 3)
Second variable is: (1, 2, 3)
Two variables are same object or not: False
```