PYTHON OPERATORS

Code:

Arithmetic:

```
For a = 46 and b = 4

Calculate the following:

1. Addition of two numbers: a + b = 50

2. Subtraction of two numbers: a - b = 42

3. Multiplication of two numbers: a * b = 184

4. Division of two numbers: a / b = 11.5

5. Floor division of two numbers: a // b = 11

6. Reminder of two numbers: a mod b = 2

7. Exponent of two numbers: a ^ b = 4477456

...Program finished with exit code 0

Press ENTER to exit console.
```

2. Comparison Operators:

```
Run 🕑 Debug 🔳 Stop 🕑 Share 🗎 Save 👍 Beautify 👤 🔻
              OnlineGDB
                                            main.pv
online compiler and debugger for c/c++
                                                    a = 46
                                                2 b = 4
code. compile. run. debug. share.
                                                4 print("For a =", a, "and b =", b,"\nCheck the following:")
                IDE
            My Projects
                                                6 print('1. Two numbers are equal or not:', a == b)
                                              print('1. Two numbers are equal or not:', a == b)

print('2. Two numbers are not equal or not:', a != b)

print('3. a is less than or equal to b:', a <= b)

print('4. a is greater than or equal to b:', a >= b)

print('5. a is greater b:', a > b)

print('6. a is less than b:', a < b)
         Classroom new
       Learn Programming
     Programming Questions
              Sign Up
               Login
                                        <
```

```
For a = 46 and b = 4
Check the following:

1. Two numbers are equal or not: False
2. Two numbers are not equal or not: True
3. a is less than or equal to b: False
4. a is greater than or equal to b: True
5. a is greater b: True
6. a is less than b: False

...Program finished with exit code 0
Press ENTER to exit console.
```

3. Assignment Operators:

```
Run O Debug Stop O Share H Save {} Beautify ±
         ♦ OnlineGDB
                                               main.py
online compiler and debugger for c/c++
                                                   1 a = 34
                                                   2 b = 6
code. compile. run. debug. share.
                 IDE
                                                 5 print('a += b:', a + b)
6 print('a -= b:', a - b)
7 print('a *= b:', a * b)
8 print('a /= b:', a / b)
9 print('a %= b:', a % b)
10 print('a **= b:', a ** b)
11 print('a //= b:', a // b)
             My Projects
          Classroom new
        Learn Programming
     Programming Questions
               Sign Up
                Login
                                           <
```

```
input

a += b: 40

a -= b: 28

a *= b: 204

a /= b: 5.6666666666667

a %= b: 4

a **= b: 1544804416

a //= b: 5

...Program finished with exit code 0

Press ENTER to exit console.
```

4.Bitwise Operators:

```
input

a & b : 0
a | b : 15
a ^ b : 15
~a : -8
a << b : 1792
a >> b : 0

...Program finished with exit code 0

Press ENTER to exit console.
```

5.Logical Operators:

```
For a = 7, checking whether the following conditions are True or False:
"a > 5 and a < 7" => False
"a > 5 or a < 7" => True
"not (a > 5 and a < 7)" => True

...Program finished with exit code 0

Press ENTER to exit console.
```

6.Membership operators:

OUTPUT:

```
input

Given List: [12, 22, 28, 35, 42, 49, 54, 65, 92, 103, 245, 874]

x = 31 is NOT present in the given list.

y = 28 is present in the given list.

...Program finished with exit code 0

Press ENTER to exit console.
```

7.Identity Operators:

```
a is c => True
a is not c => False
a is b => False
a is not b => True
a == b => True
a != b => False

...Program finished with exit code 0

Press ENTER to exit console.
```

READ CSV FILE IN PYTHON:

1. CODE:

OUTPUT:

```
Files\Python313\python.exe' 'c:\Users\Administrator\.vscode\extensions\ms-python.debugpy-2024.14.0-wi
n32-x64\bundled\libs\debugpy\adapter/../..\debugpy\launcher' '59728' '--' 'c:\Users\Administrator\reci
pewebsite\import_csv_module.py'

Column names are Name, Roll Number, Department

Alice roll number is: 101 and department is: Computer Science.

Bob roll number is: 102 and department is: Mechanical.

Charlie roll number is: 103 and department is: Electrical.

David roll number is: 104 and department is: Civil.

Emma roll number is: 105 and department is: Electronics.

Processed 6 lines.

PS C:\Users\Administrator\recipewebsite>
```

REVERSE A STRING:

1.USING FOR LOOP:

```
main.py

1 def reverse_string(str):
2 str1 = ""
3 for i in str:
4 str1 = i + str1
5 return str1
6
7 str = "Kireeti"
8 print("The original string is: ",str)
9 print("The reverse string is: ",reverse_string(str)) # Function call

The original string is: Kireeti
The reverse string is: iteeriK

...Program finished with exit code 0

Press ENTER to exit console:
```

2.USING WHILE LOOP:

3.USING SLICE OPERATOR:

```
main.py

1 # Reverse a string
2 # using slice syntax
3 # reverse(str) Function to reverse a string
4 def reverse(str):
5 str = str[::-1]
6 return str
7

8 s = "Kireeti"
9 print ("The original string is: ",s)
10 print ("The reversed string using extended slice operator is: ",reverse(s))

The original string is: Kireeti
The reversed string using extended slice operator is: iteerik

...Program finished with exit code 0
Press ENTER to exit console.
```

4.USING REVERSED FUNCTION INSIDE JOIN:

5.USING RECURSION:

```
main.py

1 def reverse(str):
2 if len(tr) == 0: # Checking the Lenght of string
return str
4 else:
5 return reverse(str[1:]) + str[0]
6
7 str = "Kireeti"
8 print ("The original string is: ", str)
9 print ("The reversed string(using recursion) is: ", reverse(str))

The original string is: Kireeti
The reversed string(using recursion) is: iteerik

...Program finished with exit code 0
Press ENTER to exit console.
```