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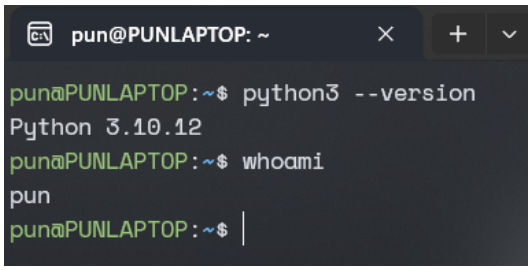
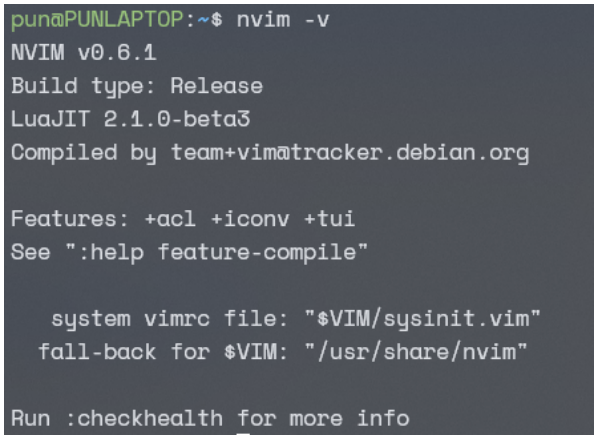
# TOPIC-1

1. Install Python 3 on your computer.

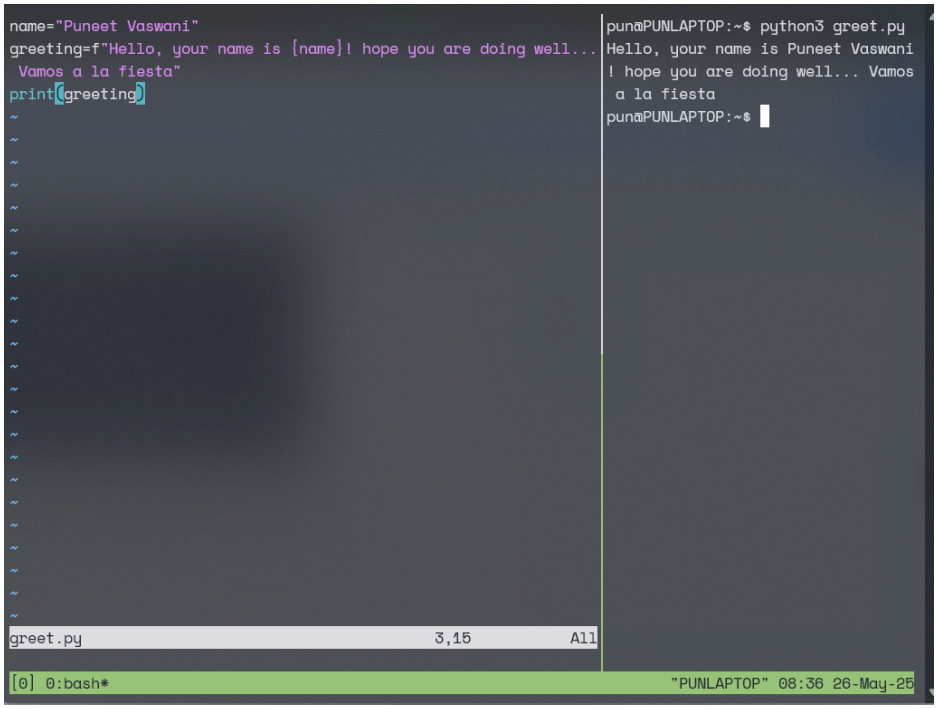



2. Install a code editor of your choice.
I am using vim as my code editor




**For the following tasks i will be using *tmux* to show both the *nvim* and terminal at the same time**

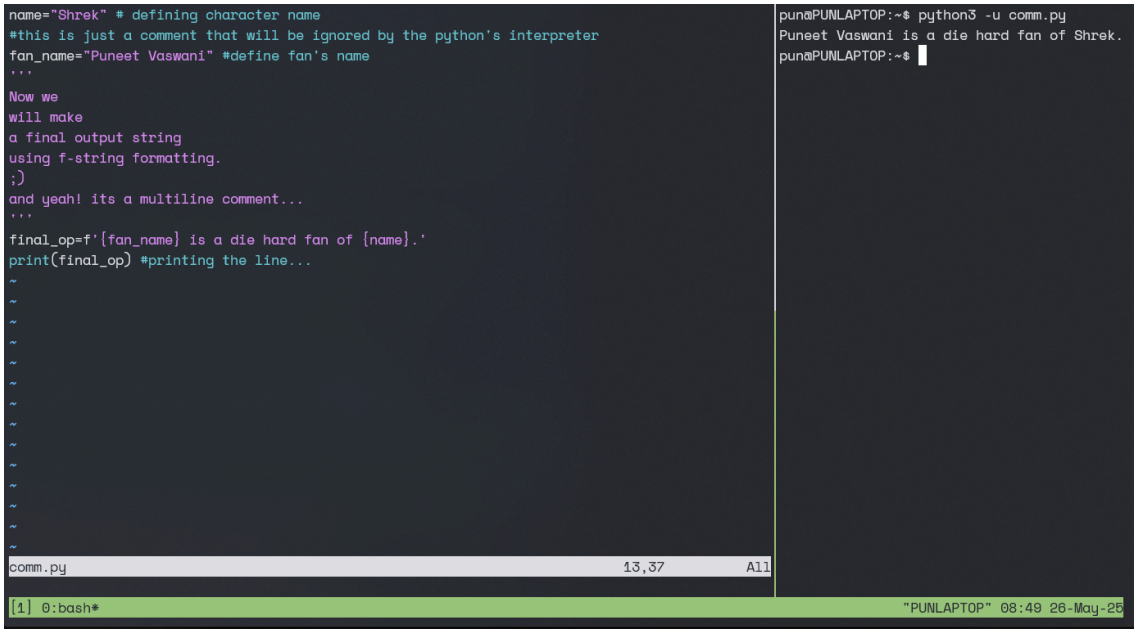
3. Write a simple Python script that prints your name and a greeting.




4. Experiment with running Python code directly in the interpreter.

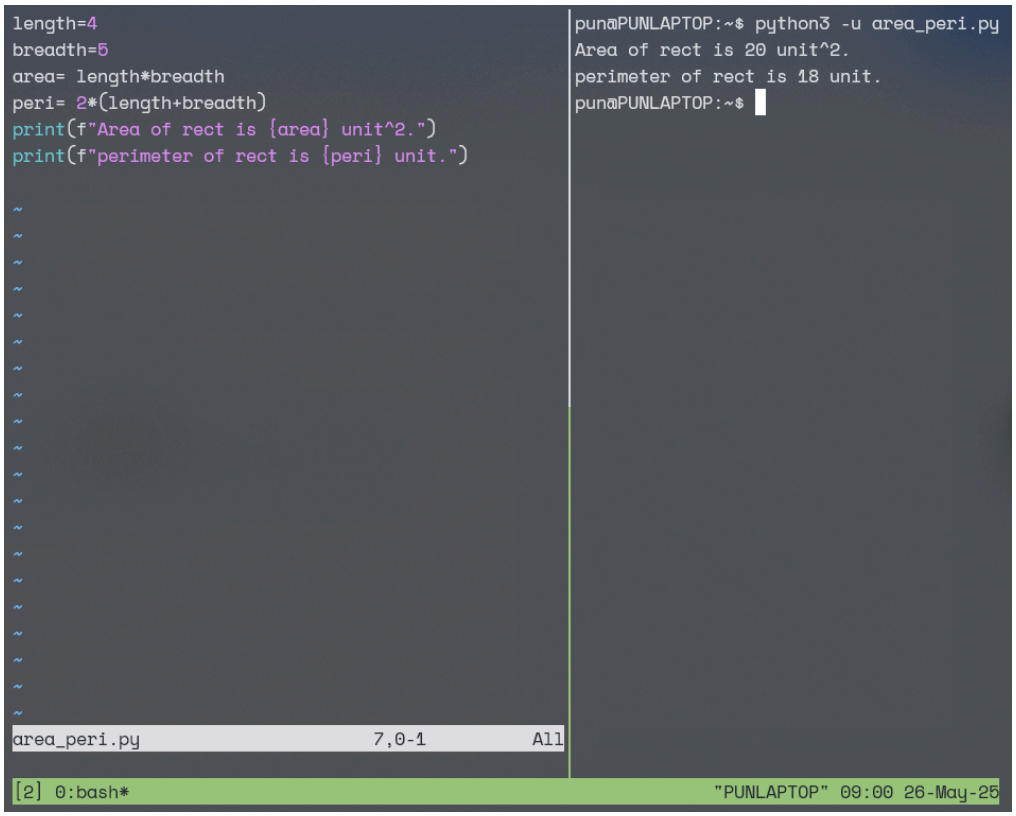
```
pun@PUNLAPTOP:~$ cat greet.py
name="Puneet Vaswani"
greeting=f"Hello, your name is {name}! hope you are doing well... Vamos a la fiesta"
print(greeting)
pun@PUNLAPTOP:~$ python3
Python 3.10.12 (main, Jan 17 2025, 14:35:34) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> name="Puneet Vaswani"
>>> greeting=f"Hello, your name is {name}! hope you are doing well... Vamos a la fiesta"
>>> print(greeting)
Hello, your name is Puneet Vaswani! hope you are doing well... Vamos a la fiesta
>>>
```

5. Write a script with comments explaining different parts of the code.

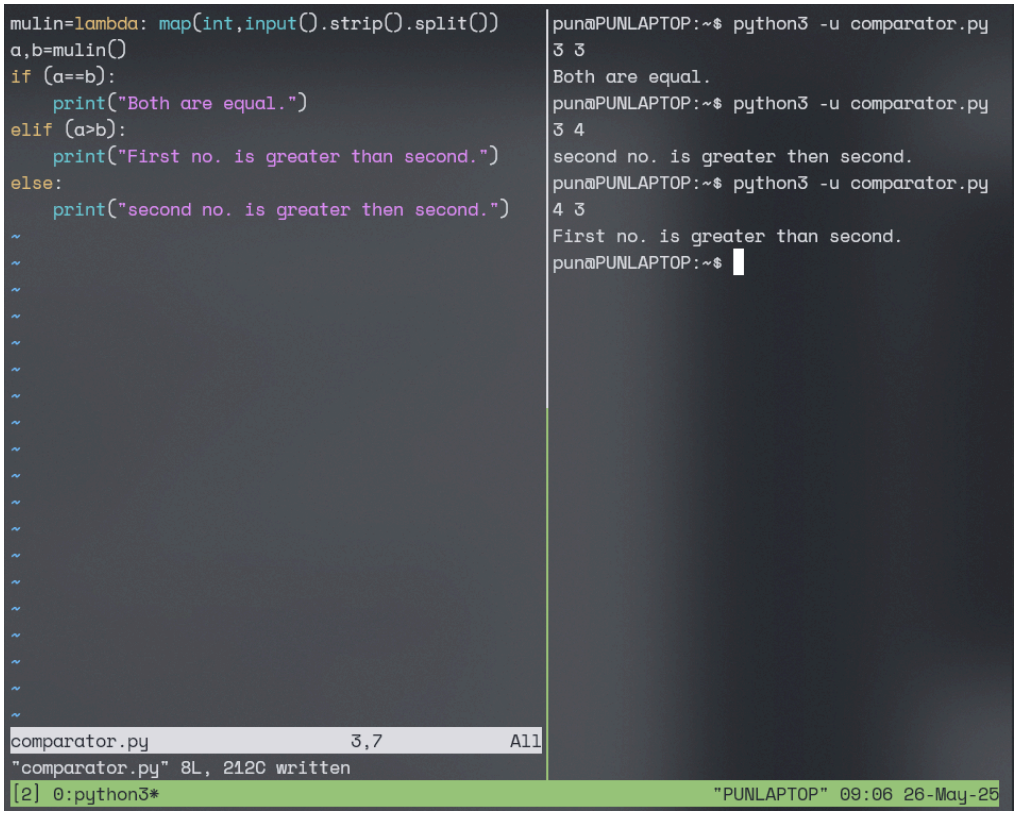

name="Shrek" # defining character name
#this is just a comment that will be ignored by the python's interpreter
fan_name="Puneet Vaswani" #define fan's name
'''
Now we
will make
a final output string
using f-string formatting.
;)
and yeah! its a multiline comment...
'''
final_op=f'{fan_name} is a die hard fan of {name}.'
print(final_op) #printing the line...
comm.py 13,37 All
puna@PUNLAPTOP:~$ python3 -u comm.py
Puneet Vaswani is a die hard fan of Shrek.
puna@PUNLAPTOP:~$
[1] 0:bash*
"PUNLAPTOP" 08:49 26-May-25

# TOPIC-2

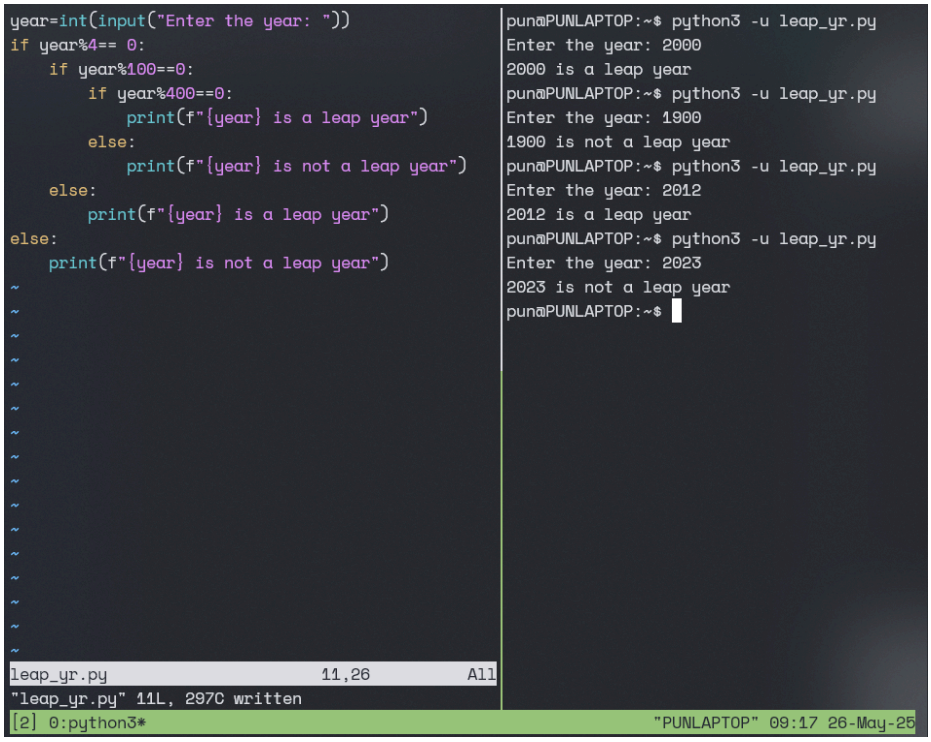
1. Write a script to calculate the area and perimeter of a rectangle using variables.




2. Write a script that takes two numbers as input and prints whether the first number is greater than, less than, or equal to the second number.



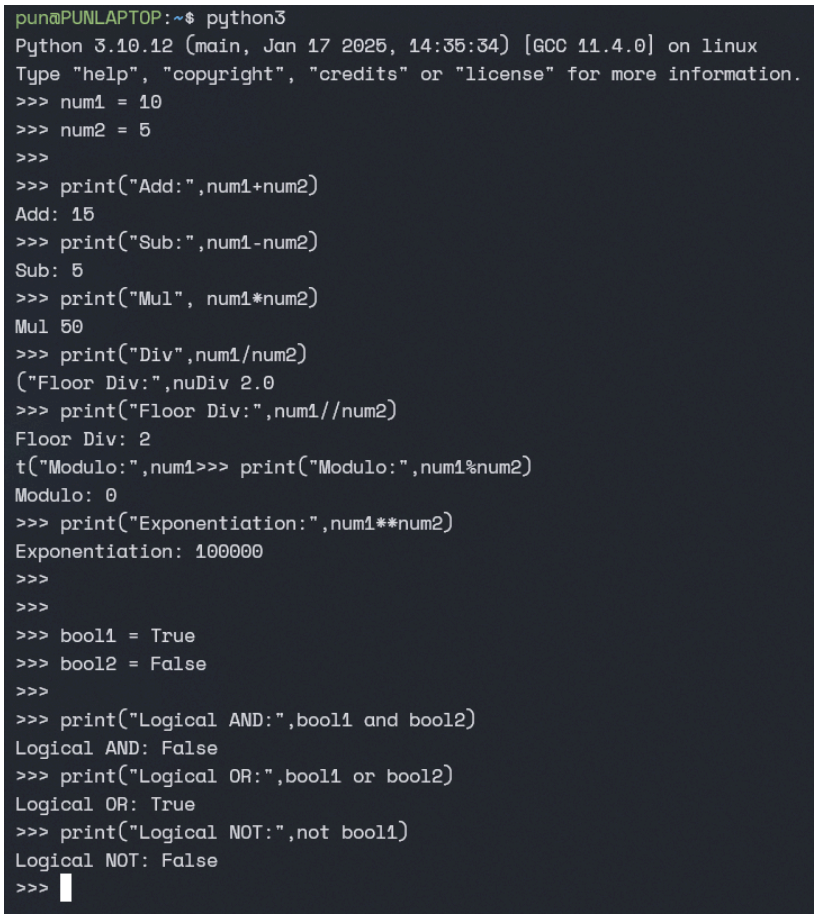
3. Write a script that checks if a given year is a leap year (divisible by 4, but not by 100 unless also divisible by 400).



```
year=int(input("Enter the year: "))
if year%4== 0:
    if year%100==0:
        if year%400==0:
            print(f"{year} is a leap year")
        else:
            print(f"{year} is not a leap year")
    else:
        print(f"{year} is a leap year")
else:
    print(f"{year} is not a leap year")
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
leap_yr.py                    11,26          All
"leap_yr.py" 11L, 297C written
[2] 0:python3*                          "PUNLAPTOP" 09:17 26-May-25
```

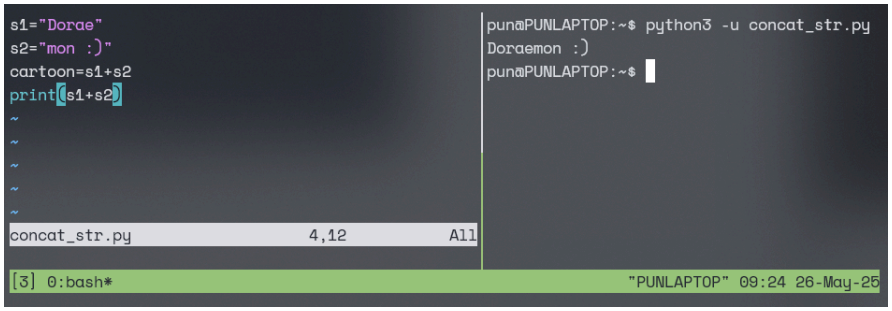
```
pun@PUNLAPTOP:~$ python3 -u leap_yr.py
Enter the year: 2000
2000 is a leap year
pun@PUNLAPTOP:~$ python3 -u leap_yr.py
Enter the year: 1900
1900 is not a leap year
pun@PUNLAPTOP:~$ python3 -u leap_yr.py
Enter the year: 2012
2012 is a leap year
pun@PUNLAPTOP:~$ python3 -u leap_yr.py
Enter the year: 2023
2023 is not a leap year
pun@PUNLAPTOP:~$
```

4. Experiment with different arithmetic and logical operators in the interpreter.



```
pun@PUNLAPTOP:~$ python3
Python 3.10.12 (main, Jan 17 2025, 14:35:34) [GCC 11.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> num1 = 10
>>> num2 = 5
>>>
>>> print("Add:",num1+num2)
Add: 15
>>> print("Sub:",num1-num2)
Sub: 5
>>> print("Mul", num1*num2)
Mul 50
>>> print("Div",num1/num2)
("Floor Div:",nuDiv 2.0
>>> print("Floor Div:",num1//num2)
Floor Div: 2
t("Modulo:",num1>>> print("Modulo:",num1%num2)
Modulo: 0
>>> print("Exponentiation:",num1**num2)
Exponentiation: 100000
>>>
>>>
>>> bool1 = True
>>> bool2 = False
>>>
>>> print("Logical AND:",bool1 and bool2)
Logical AND: False
>>> print("Logical OR:",bool1 or bool2)
Logical OR: True
>>> print("Logical NOT:",not bool1)
Logical NOT: False
>>>
```

5. Write a script that concatenates two strings and prints the result.


s1="Dorae"
s2="mon :)"
cartoon=s1+s2
print(s1+s2)
concat_str.py 4,12 All
punn@PUNLAPTOP:~$ python3 -u concat_str.py
Doraemon :)
punn@PUNLAPTOP:~$
[3] 0:bash*
"PUNLAPTOP" 09:24 26-May-25