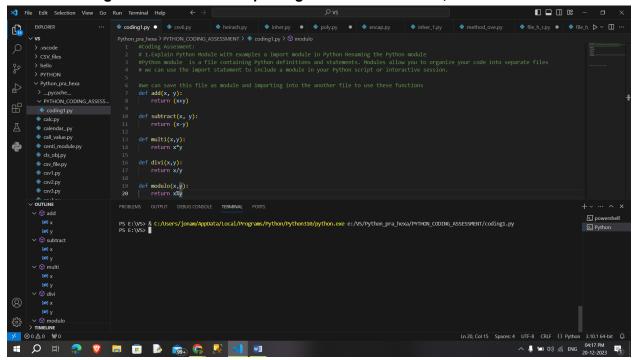
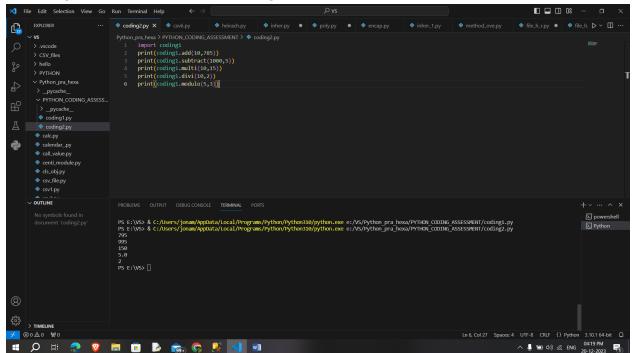
1.Explain Python Module with examples.Import module in Python.Renaming the Python module

Python module-a module is a file containing Python definitions and statements. Modules allow you to organize your code into separate files, making it easier to manage and maintain.

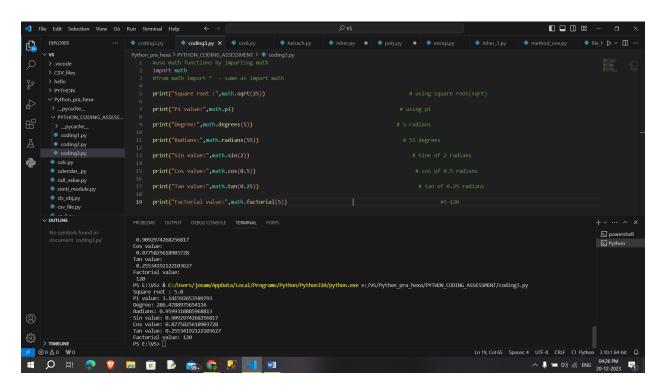
Creating own module and importing it in the another file,



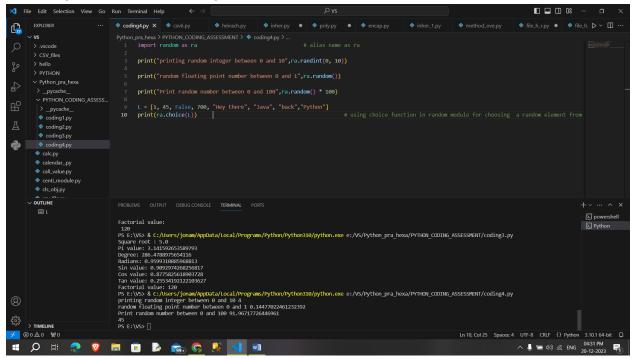
Importing the own module and printing the output,



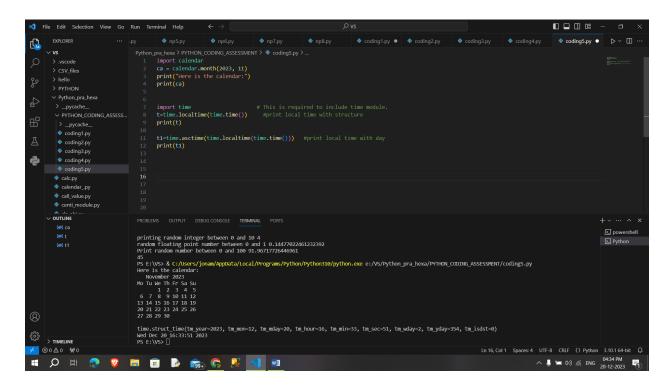
Importing math functions are square root,pi value,degree,radians etc,



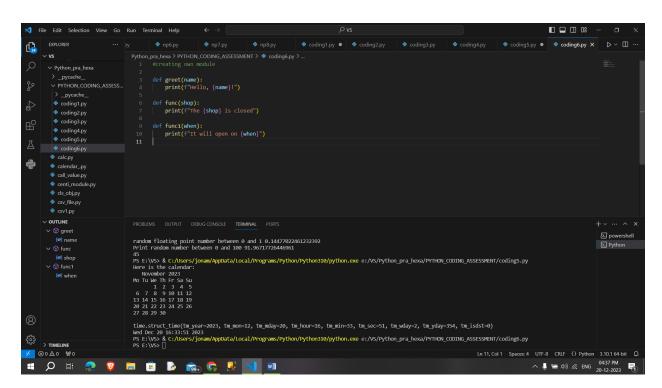
Importing random and creating alias name as ra,



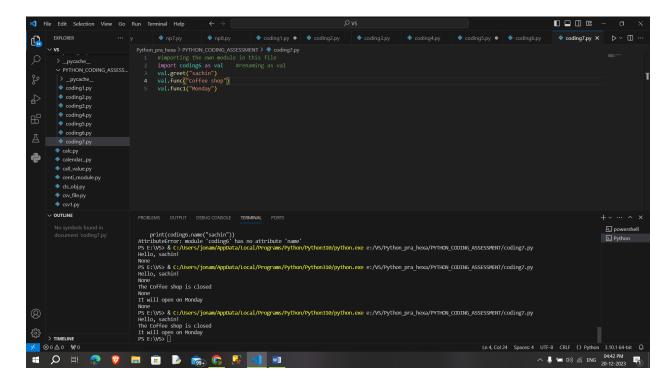
Importing calendar and time module to get the local time and the particular month,



Creating own module called coding6 and importing in the next file,



Importing coding6 module to another file and renaming as val and executing it,

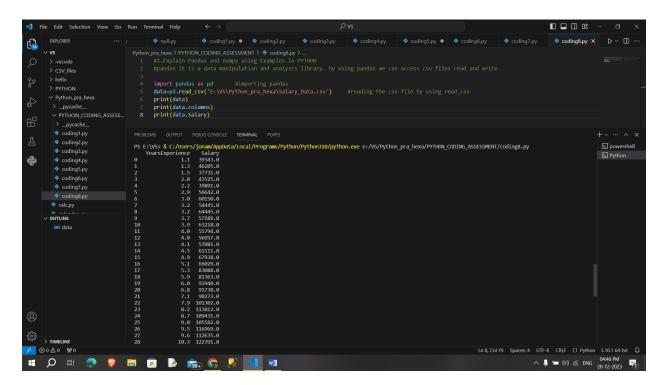


2. Explain Pandas and numpy using Examples in PYTHON

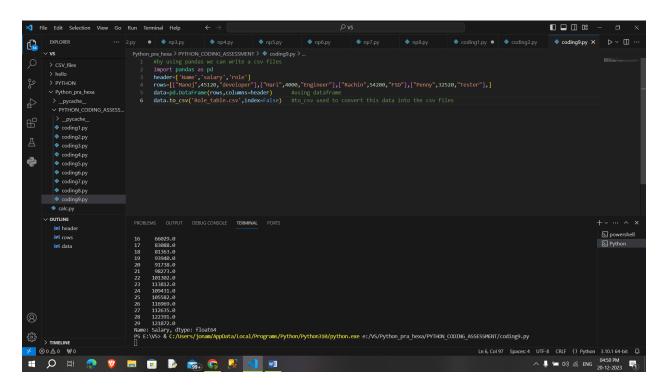
Pandas-Pandas is a data manipulation and analysis library. It provides data structures like Series and DataFrame, which are particularly useful for working with structured data such as CSV files or SQL tables.

Numpy-NumPy is a powerful numerical computing library in Python. It provides support for large, multi-dimensional arrays and matrices, along with mathematical functions to operate on these arrays.

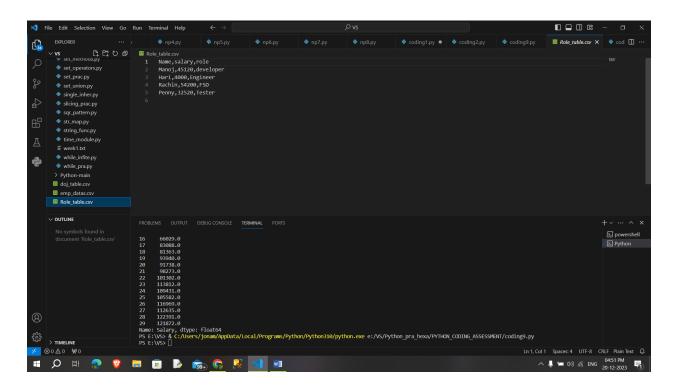
By using pandas we can access the csv files, reading the file



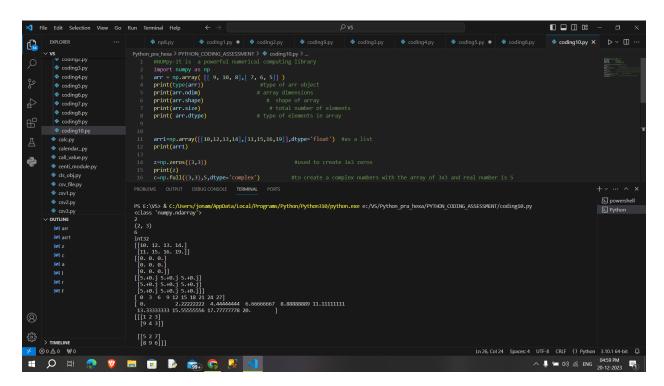
Using pandas writing and creating the csv file,



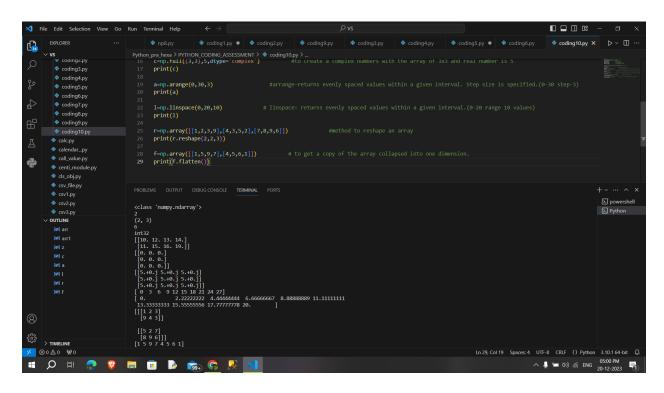
The created csv file.



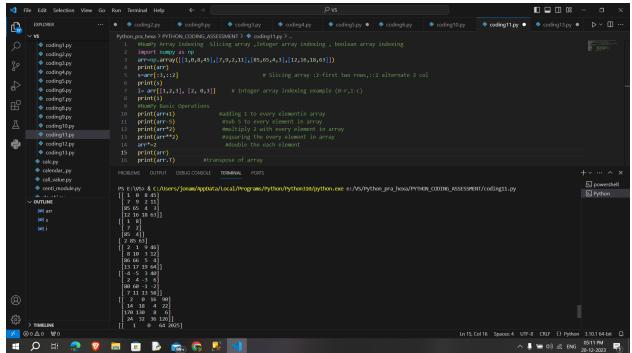
Using numpy



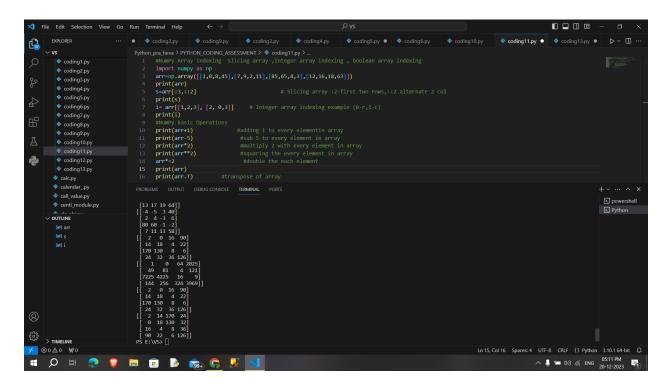
Continuation,



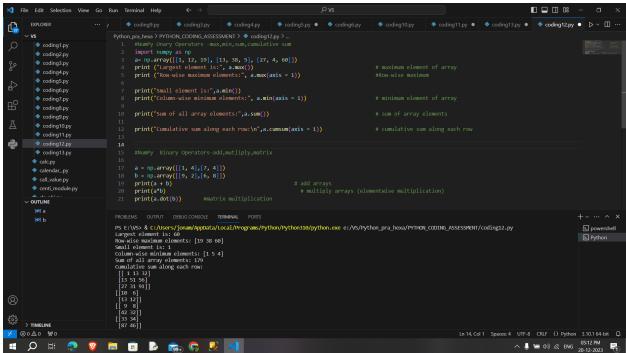
Numpy operations and indexing methods, operations are add,sub,mul,square,double and indexing methods are slicing,boolean and integer array indexing.



Continuation,



Numpy unary and binary operators, unary operators are max, min, sum, cumulative sum and binary operators are adding two arrays, multiplying and matrix multiplication.



Numpy sorting methods,

