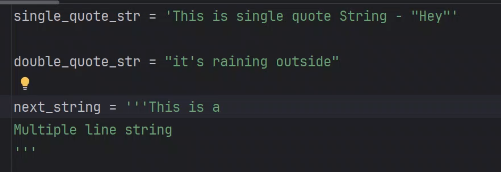
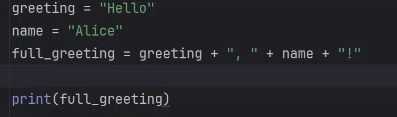
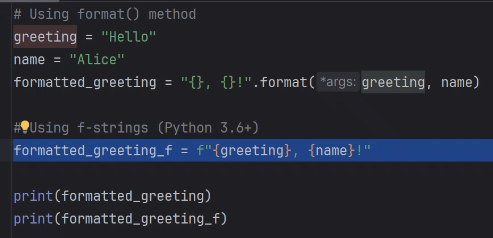


STRINGS



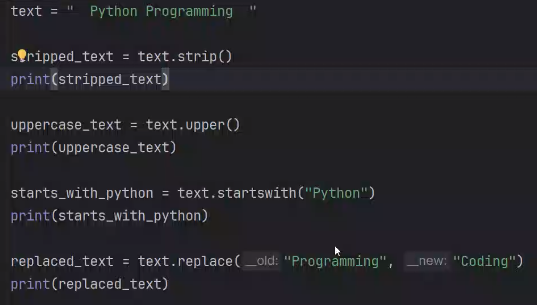


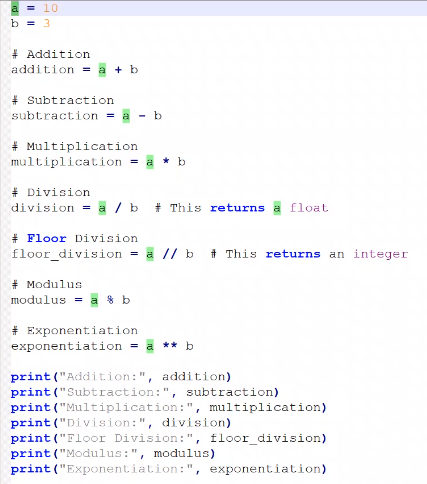
* Appending string ^



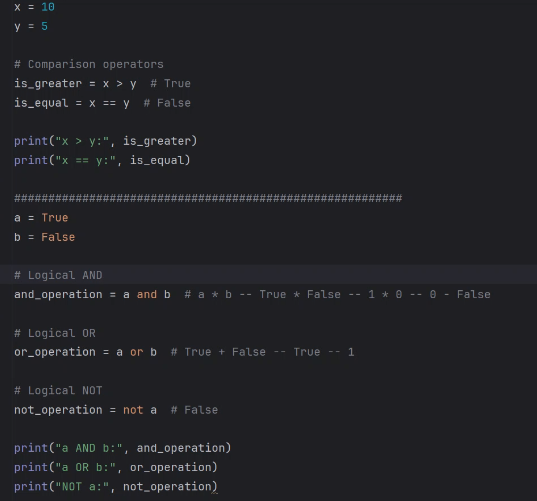
* Using Format method ^

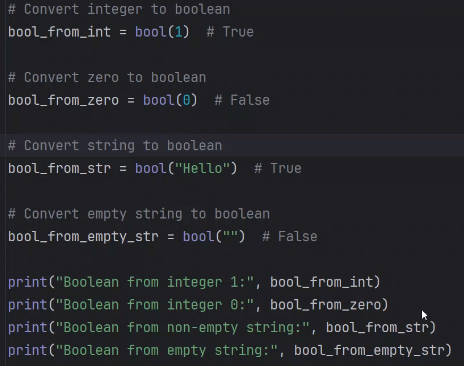
STRING OPERATIONS





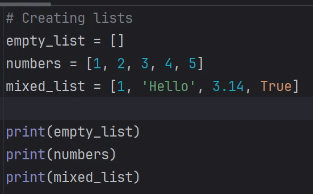


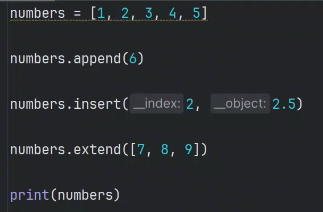


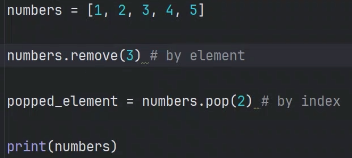


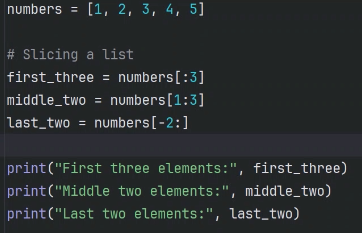
* Bool of 0 IS FLASE and bool of all other numbers are true
* Bool of String is True and BOOL of Empty string is False ^

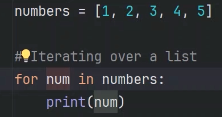
LISTS

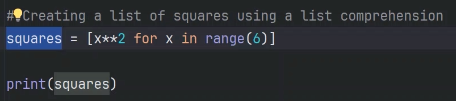




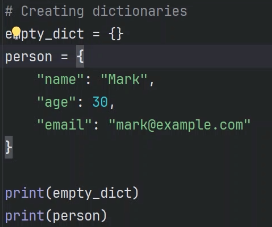


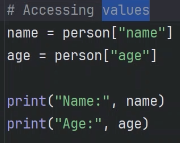


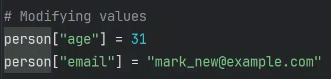


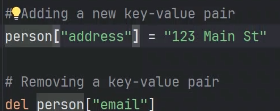


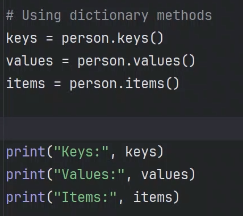
DICTIONARY

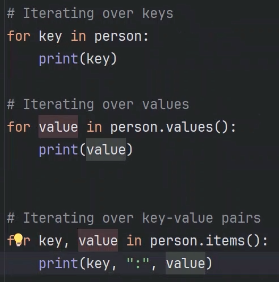




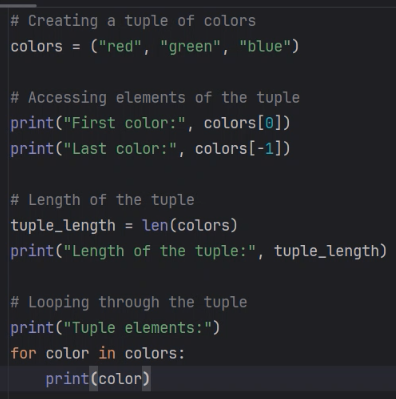






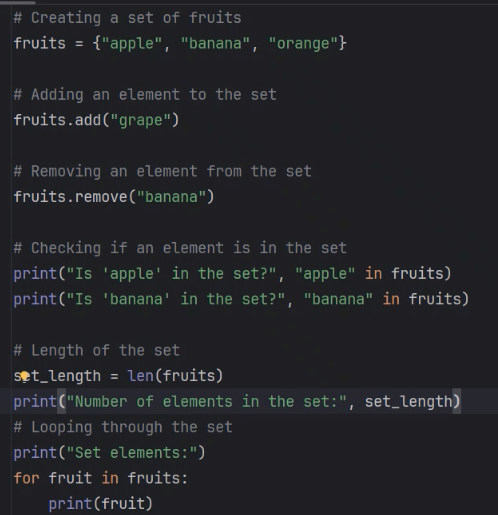


***TUPLES***



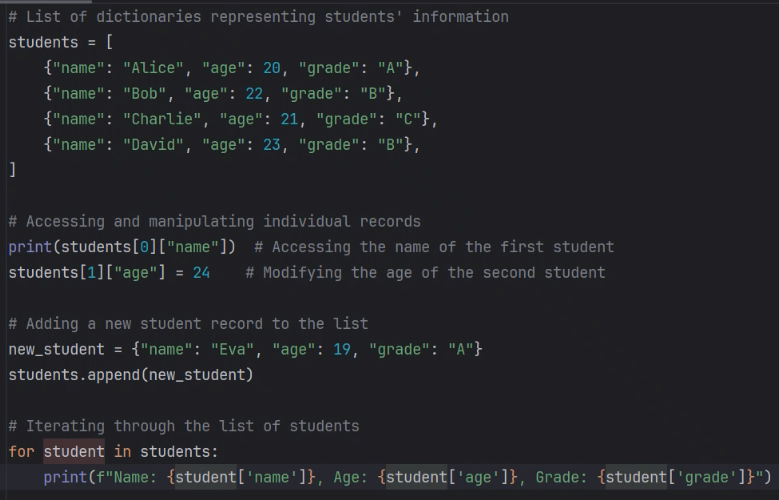
* Tuples are immutable ,cant add or remove elemets once it is assigned

***SETS***

******

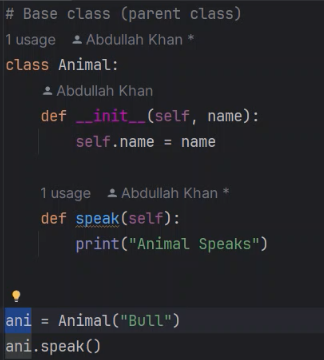
* Sets are mutable and it is unordered

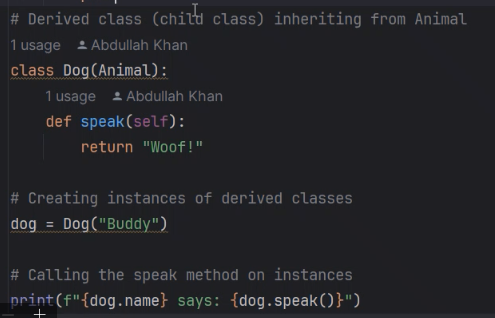
LIST OF DICTIONARIES

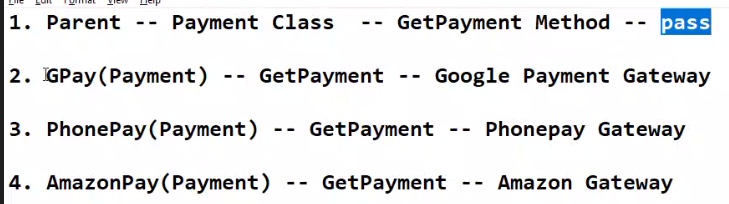


**OOPS [OBJECT ORIENTED PROGRAMMING]**

* Class is the blueprint of the object
* Object is the instance of the class which creates memory space for the code (in ram)
* Self is used to refer the object within the class (self is the object of the class)

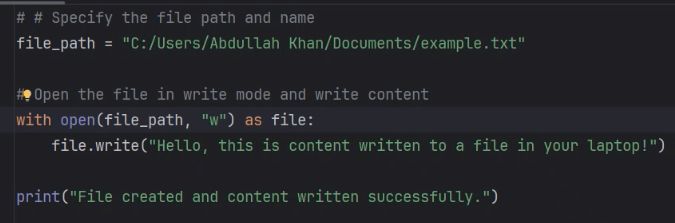
****

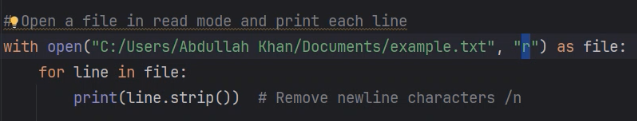
****

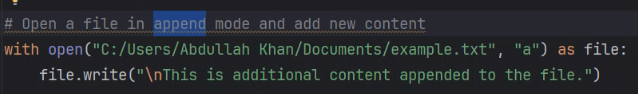
****

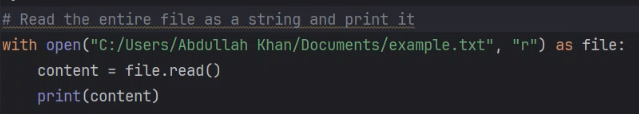
* **Inheritance** – other classes will inherit from main class ^

**FILES**

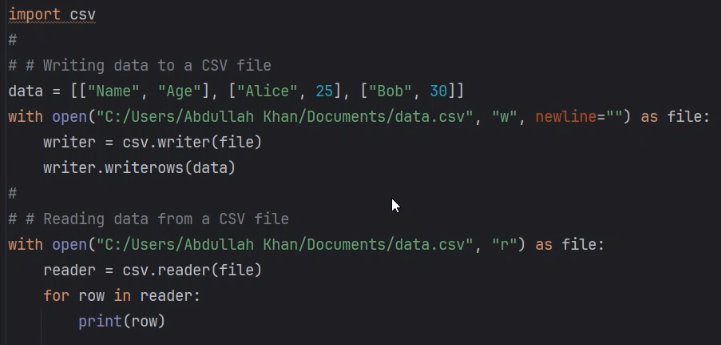




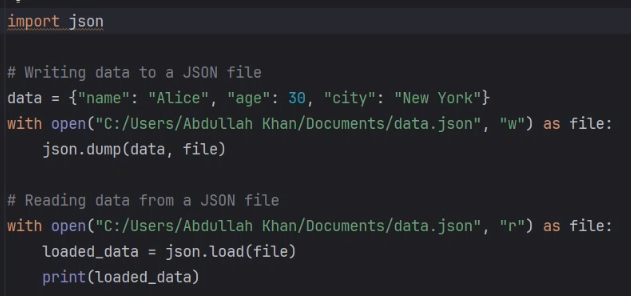




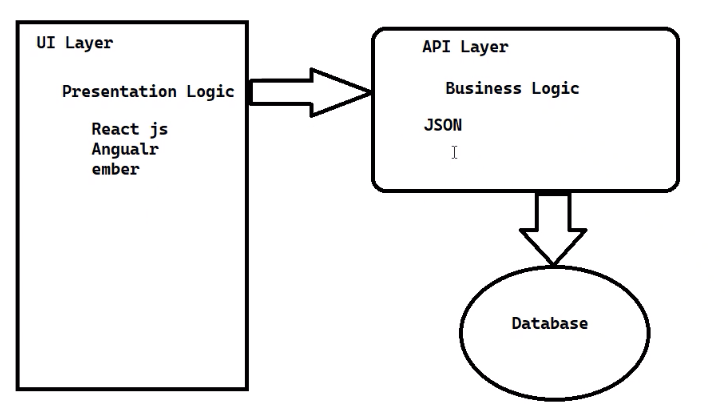
**CSV (Comma Separated Values)**



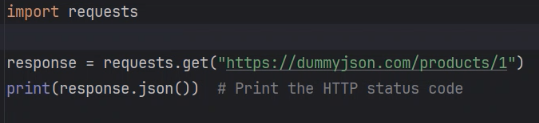
**JSON Files**



***API (Application Programming Interface )***

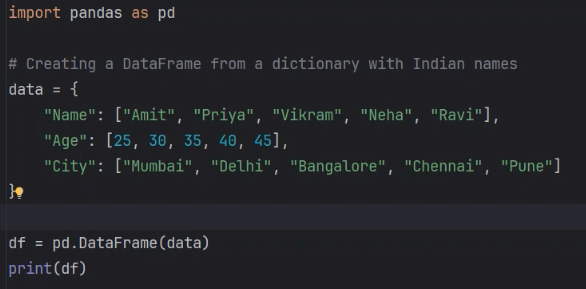


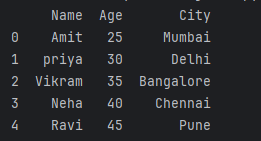
* Example for API : Weather report , Cricket scorecard,Google maps



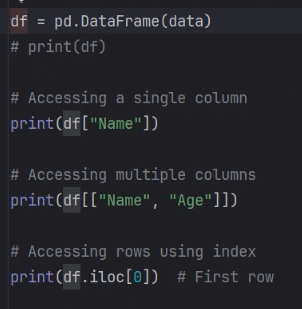
***PANDAS***

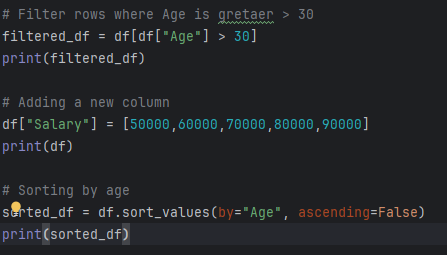
* It helps you to manipulate the data

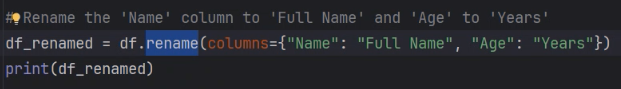


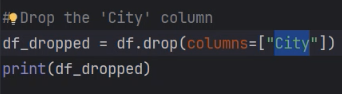


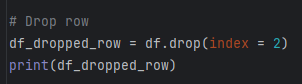
Output

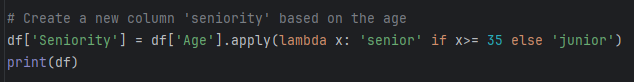


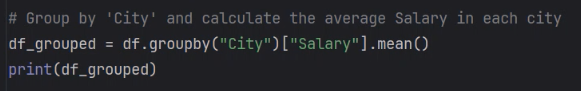


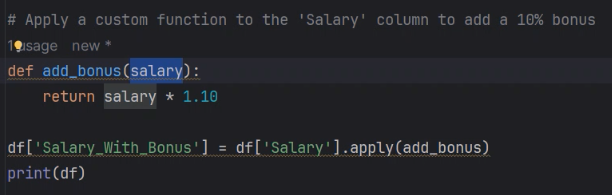


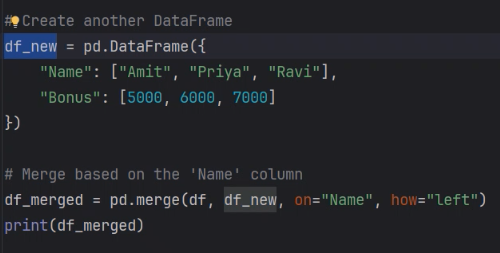


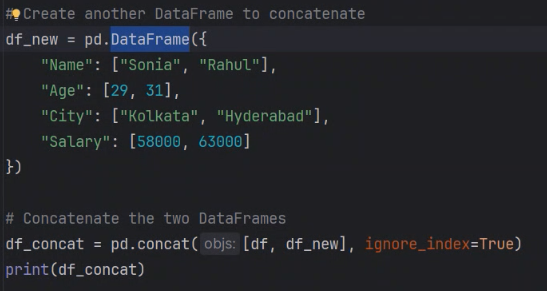




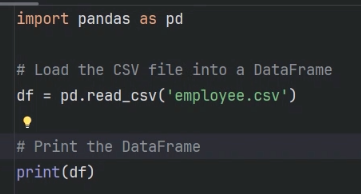


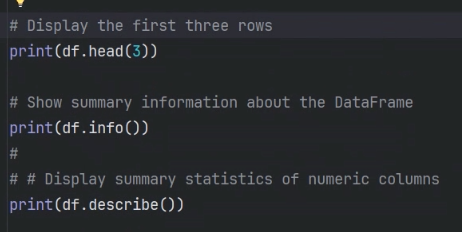


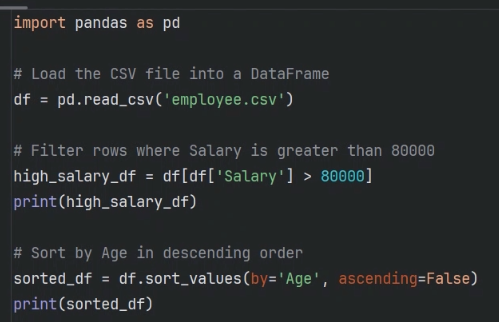




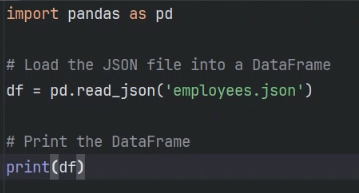
To read data from csv [Pandas – CSV ]

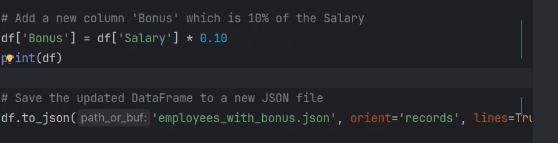






Reading JSON Using Pandas





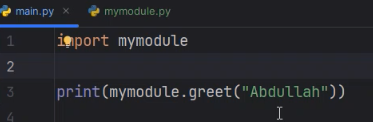
***MODULES***

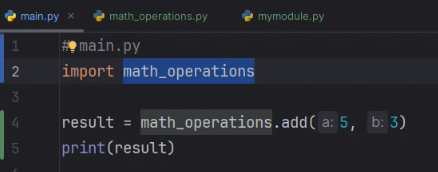
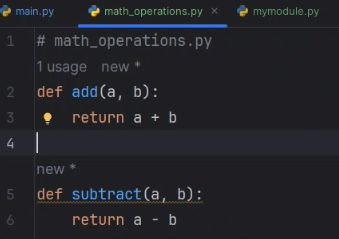
* When we create a function directly ,then it is treated as modules
* Wwe can import it and use it

Creating a module :

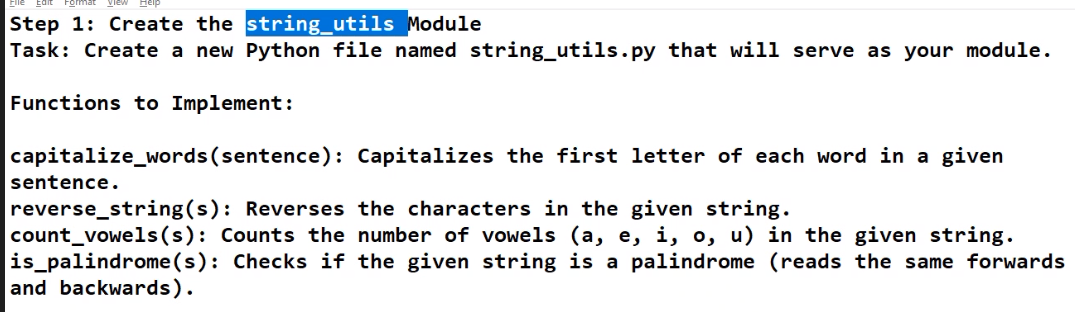


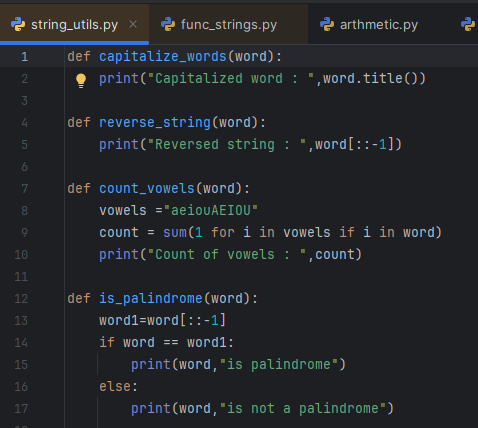
Importing a module:





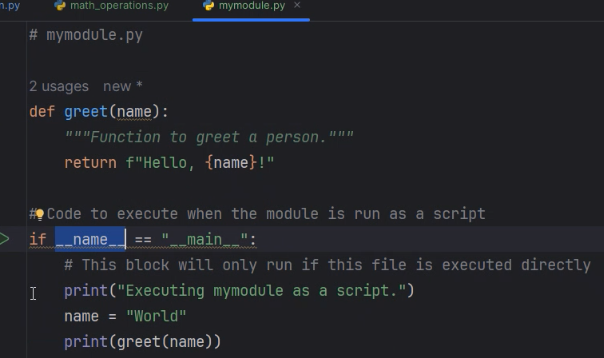
Example for modules and importing





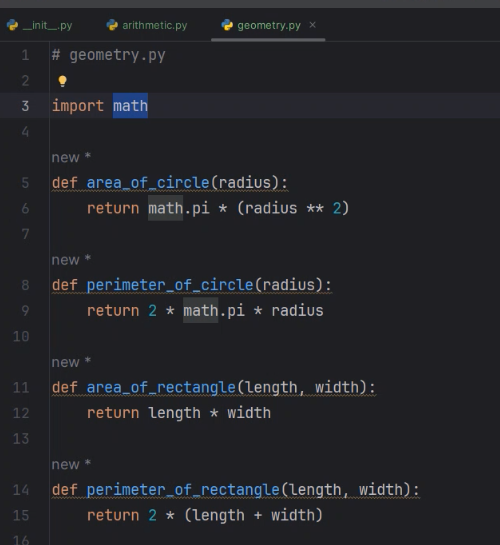


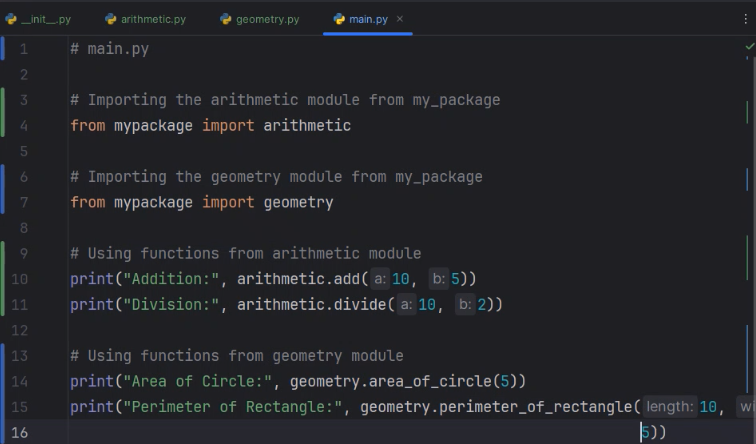
RUNNING MODULE AS A SCRIT



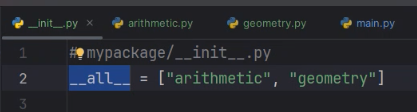
* It will execute only when it is in the main file.it will not work in the imported file

MODULES INSIDE PACKAGE



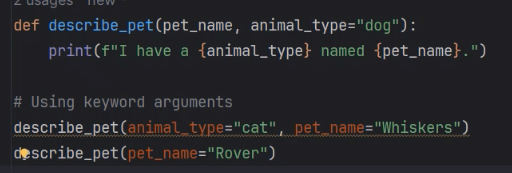


* Package is the collection of modules
* Modules contain the random reusable methods



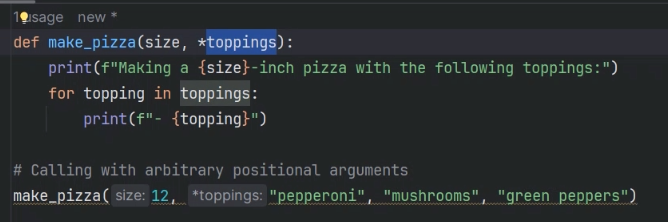
* We can use the above all command in init.py of package so that we can simply use import \* for importing all modules.

KEYWORD ARGUMENTS



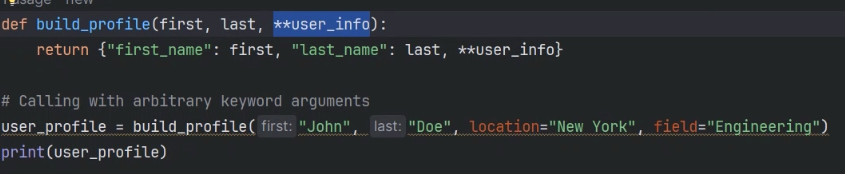
* If we want to change the order of giving arguments then we can use key word arguments
* If we don’t give value for parameters it will take the default argument

ARBITARY ARGUMENTS



Tuples are inserted

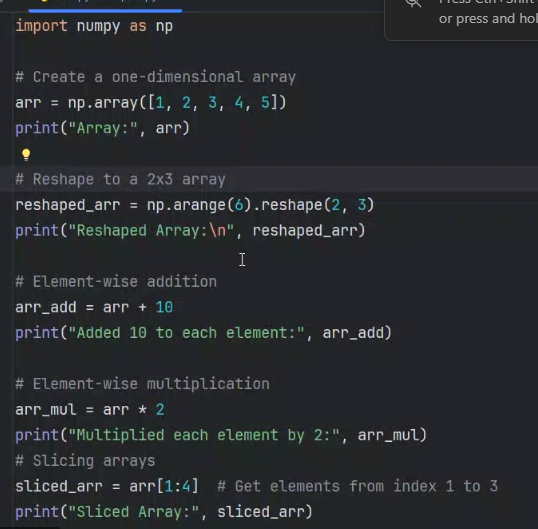
ARBITARY KEYWORD ARGUMENTS



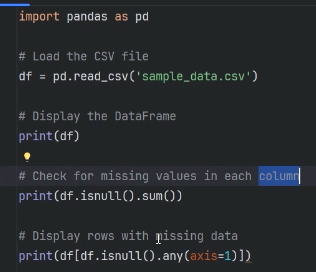
Dictionary inserted

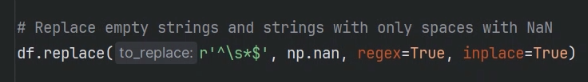
**NUMPY**

* It is used for mathematical operations

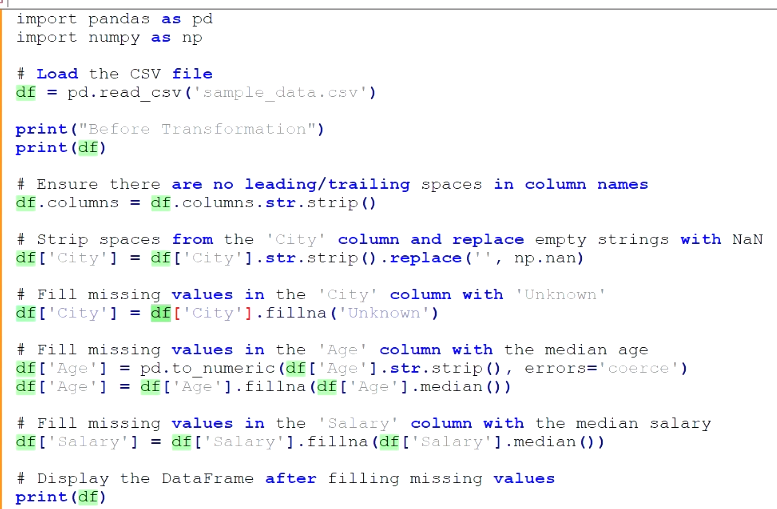


DATA CLEANING





* The above given code using numpy will change the empty space to a NaN(Not a Number or Null)
* In above “^” means starts with \s(space) if it starts with space it will change it to a Nan
* Regex means regular expression ,inplace means it will take the same place



MERGING AND TRANSFORMING DATA

