1.9 Module

A module is a importable python file and can be created by creating a file with extension as .py

We can import the objects present in the module.

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In the below \stackrel{\frown}{\bullet} example, we are importing hello function from greet module (greet.py)
         greet.py
         """Module to greet the user"""
         import getpass
         def hello():
              username: str = getpass.getuser().capitalize()
              print(f"Hello {username}. Have a great day :)")
         if __name__ == "__main__":
              hello()
In [1]:
          from greet import hello
In [2]:
          hello()
         Hello Root. Have a great day :)
         let's have a look at the greet.py module. Well, we see the below if condition.
         if __name__ == "__main__":
              hello()
         But why do we we need to have it ?? We can just call the hello function at the end as
         hello()
         Let's see the below \( \bigcirc\) code to know why we use the first approach rather than the second. \( \bigcirc\)
In [3]:
          import greet
         The above code doesn't greet you ??
In [4]:
         %run ./greet.py
         Hello Root. Have a great day :)
         But, this above code greets you.
         The reason for this is, in the first snippet, we are importing a module called greet, so the
```

Coming to second snippet, we are executing the greet.py directly.

actual code we are executing is in this REPL or Ipython shell.