

Assignment-2: Python Basics

1. Write a python script to add comments and print "Learning Python" on screen.

```
Demo.py
1  # Printing Learning Python
2  print("Learning Python")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

[Running] python -u "c:\Users\Kheral.aditya\Desktop\Aditya_Main\Python\DEMO.py"

Learning Python

2. Write a python script to add multi line comments and print values of four variables, each in a new line. Variable contains any values.

```
Demo.py > ...
1  """ We are printing
2  multiple line comments
3  useing double quotes three times"""
4  a = 10
5  b = 20
6  c = 30
7  d = 40
8  print(a,b,c,d, sep="\n")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

[Running] python -u "c:\Users\Kheral.aditya\Desktop\Aditya_Main\Python\DEMO.py"

10
20
30
40

3. Write a python script to print types of variables. Create 5 variables each of them containing different types of data. (like 35, True, "MySirG", 5.46, 3+4j, etc)

```
Demo.py > ...
2  multiple line comments
3  useing double quotes three times (like 35, True, "MySirG", 5.46, 3+4j, etc)"""
4  a = 24
5  print(type(a))
6  b = True
7  print(type(b))
8  c = "Aditya"
9  print(type(c))
10 d = 5.11
11 print(type(d))
12 e = 3+4j
13 print(type(e))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

[Running] python -u "c:\Users\Kheral.aditya\Desktop\Aditya_Main\Python\DEMO.py"

<class 'int'>
<class 'bool'>
<class 'str'>
<class 'float'>
<class 'complex'>

4. Write a python script to print the id of two variables containing the same integer values.

```
Demo.py X
Demo.py > ...
1 a = 10
2 b = 10
3 print(id(a))
4 print(id(b))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

[Running] python -u "c:\Users\Kheral.aditya\Desktop\Aditya_Main\Python\DEMO.py"
1981284745744
1981284745744
```

5. Create four variables in a Python script and assign values of different data types to them. Write a Python script to print value, its type and id of each variable

```
Demo.py X
Demo.py > [a]
1 """ We are printing
2 multiple line comments
3 using double quotes three times (like 35, True, "MySirG",5.46, 3+4j, etc)"""
4 a = 24
5 print(type(a))
6 print(id(a))
7 b = True
8 print(type(b))
9 print(id(b))
10 c = "Aditya"
11 print(type(c))
12 print(id(c))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER Code
[Running] python -u "c:\Users\Kheral.aditya\Desktop\Aditya_Main\Python\DEMO.py"
<class 'int'>
2116577264592
<class 'bool'>
140703193516904
<class 'str'>
2116578604976
<class 'float'>
2116578298480
```

6. Write a python script to print all the keywords

```
Demo.py X
Demo.py
1 import keyword
2 print(keyword.kwlist)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER Code
[Running] python -u "c:\Users\Kheral.aditya\Desktop\Aditya_Main\Python\DEMO.py"
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']
```

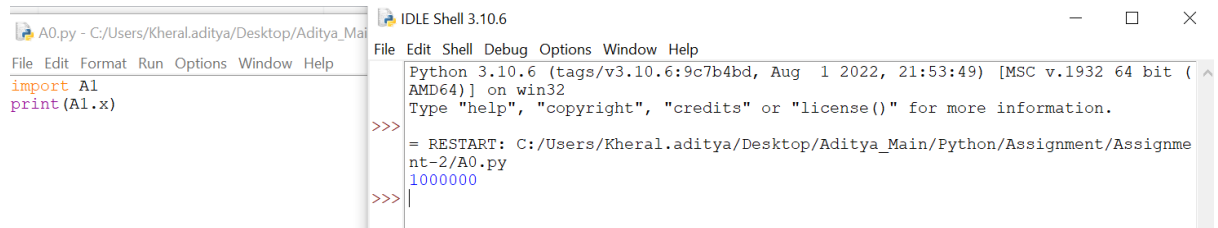
7. On Python shell use help() function and display the list of keywords

```
>>> help("keywords")
...
Here is a list of the Python keywords. Enter any keyword to get more help.

False          class          from          or
None           continue      global        pass
True           def           if            raise
and            del           import        return
as             elif          in            try
assert         else          is            while
async          except        lambda        with
await          finally      nonlocal     yield
break          for          not

>>>
```

8. Create two Python files A0.py and A1.py. Create a variable in A1.py and assign some value to it. Write a python script to import A1 module in A0 and print value of the variable created in A0.py



```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/Assignment-2/A0.py
1000000
>>>
```

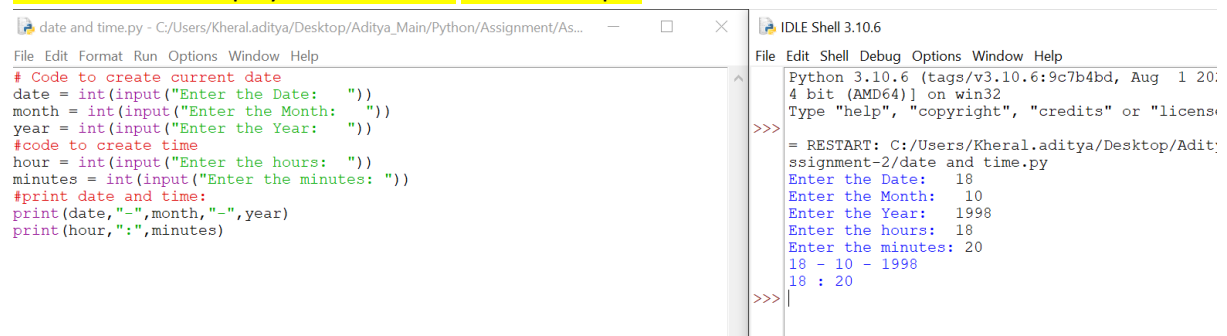
9. Name the keywords, used as data in the Python script.

Keywords used as data in the Python script are:

- True
- False
- None

10. Write a python script to display the current date and time. First create variables to store date and time, then display date and time in proper format (like: 13-8-2022 and 9:00 PM)

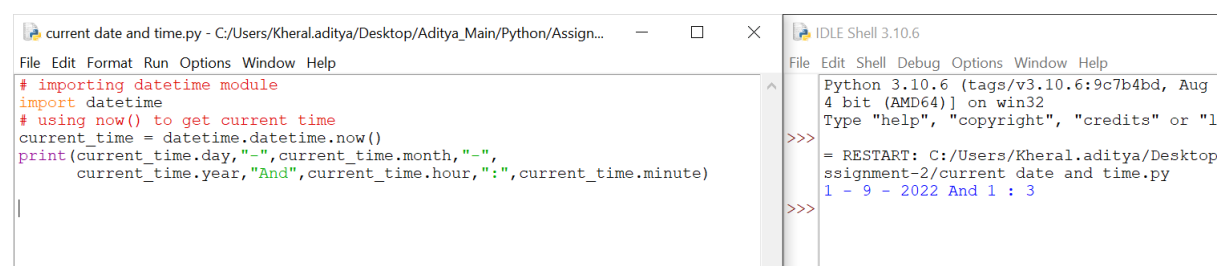
This code is for display date and time with user input



```
# Code to create current date
date = int(input("Enter the Date: "))
month = int(input("Enter the Month: "))
year = int(input("Enter the Year: "))
#code to create time
hour = int(input("Enter the hours: "))
minutes = int(input("Enter the minutes: "))
#print date and time:
print(date,"-",month,"-",year)
print(hour,":",minutes)
```

For current date and time we have to import datetime module

Here is the code for that:



```
# importing datetime module
import datetime
# using now() to get current time
current_time = datetime.datetime.now()
print(current_time.day,"-",current_time.month,"-",
current_time.year,"And",current_time.hour,":",current_time.minute)
```