Assignment-2: Python Basics

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

```
print("Learning Python")    #This is a comment for this statement
```

Output:-

```
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.

```
"""This program has

only four variables"""

a=10

b=20

c=30

d=40

print(a,b,c,d,sep='\n')
```

Output:-

```
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)

```
a=35

b=True

c="MySirG"

d=5.46
```

```
e=3+4j
print(type(a),type(b),type(c),type(d),type(e),sep='\n')
```

Output:-

```
<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.

```
x=10
y=10
print(id(x))
print(id(y))
```

Output:-

```
1707089854992
1707089854992
```

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.

```
a=5
b=3.5
c=3+4j
d="Tarun"
print(a,type(a),id(a))
print(b,type(b),id(b))
print(c,type(c),id(c))
```

```
print(d,type(d),id(d))
```

Output:-

```
5 <class 'int'> 2833294557552
3.5 <class 'float'> 2833334577008
(3+4j) <class 'complex'> 2833334578320
Tarun <class 'str'> 2833335881904
```

6. Write a python script to print all the keywords.

```
import keyword
print(keyword.kwlist)
```

Output:-

```
['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()

Welcome to Python 3.10's help utility!

If this is your first time using Python, you should definitely check out
the tutorial on the internet at https://docs.python.org/3.10/tutorial/.

Enter the name of any module, keyword, or topic to get help on writing
Python programs and using Python modules.  To quit this help utility and
return to the interpreter, just type "quit".

To get a list of available modules, keywords, symbols, or topics, type
```

"modules", "keywords", "symbols", or "topics". Each module also comes with a one-line summary of what it does; to list the modules whose name or summary contain a given string such as "spam", type "modules spam".

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	

help>

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.

Content of A1.py is:

```
X=10
```

Content of A0.py is:

```
import A1
print(A1.x)
```

Output:-

10

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

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)

```
from datetime import datetime

dt=datetime.today()

d1=dt.strftime("%d-%m-%y and %I:%M")

print(d1)
```

Output:-

08-07-23 and 10:29