

DATA SCIENCE

Assignment # 01

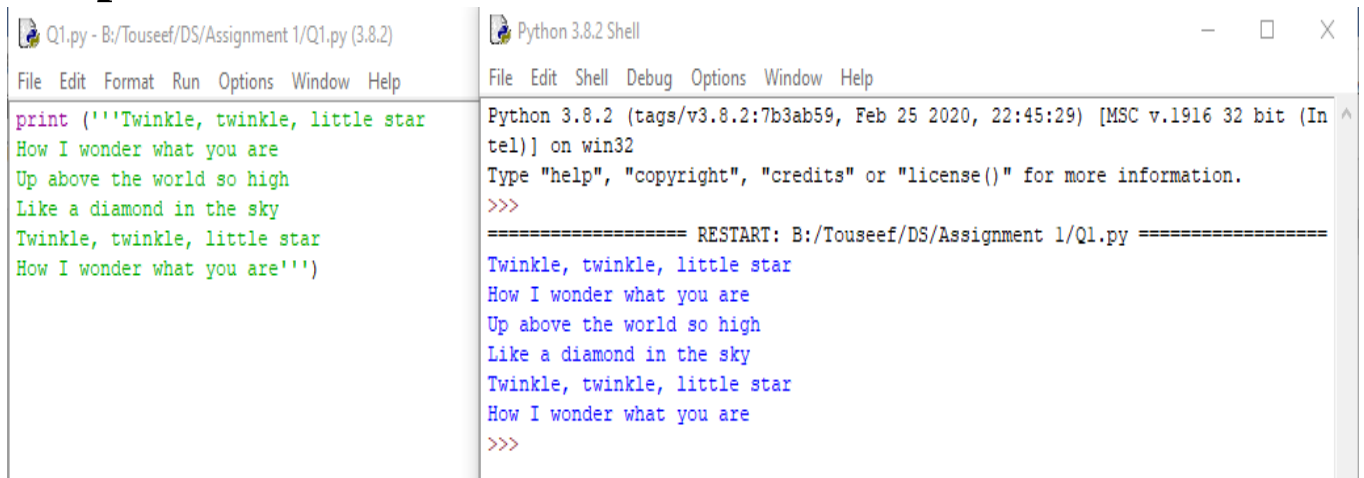
Q no : 01

Answer :

Code:

```
print ("Twinkle, twinkle, little star  
How I wonder what you are  
Up above the world so high  
Like a diamond in the sky  
Twinkle, twinkle, little star  
How I wonder what you are")
```

Output :



```
Q1.py - B:/Touseef/DS/Assignment 1/Q1.py (3.8.2)
File Edit Format Run Options Window Help

print ('Twinkle, twinkle, little star
How I wonder what you are
Up above the world so high
Like a diamond in the sky
Twinkle, twinkle, little star
How I wonder what you are')

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: B:/Touseef/DS/Assignment 1/Q1.py =====
Twinkle, twinkle, little star
How I wonder what you are
Up above the world so high
Like a diamond in the sky
Twinkle, twinkle, little star
How I wonder what you are
>>>
```

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Qno #02

Answer :

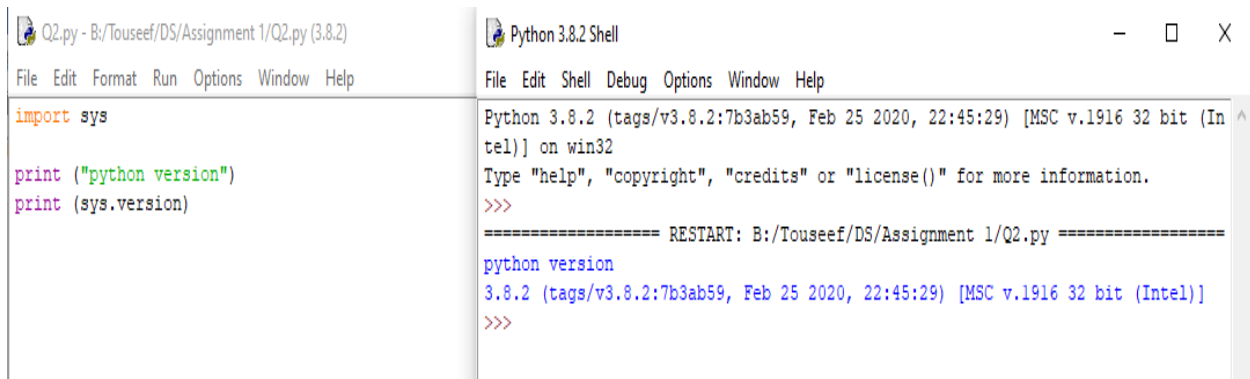
CODE :

```
import sys
```

```
print ("python version")
```

```
print (sys.version)
```

OUTPUT :



The screenshot displays two side-by-side windows from a Python IDE. The left window, titled 'Q2.py - B:/Touseef/DS/Assignment 1/Q2.py (3.8.2)', contains the following Python code:

```
import sys  
  
print ("python version")  
print (sys.version)
```

 The right window, titled 'Python 3.8.2 Shell', shows the execution output. It begins with the Python version and build information: 'Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32'. It then prompts the user for help. After a restart of the script, the output shows the results of the code execution:

```
python version  
3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)]  
>>>
```

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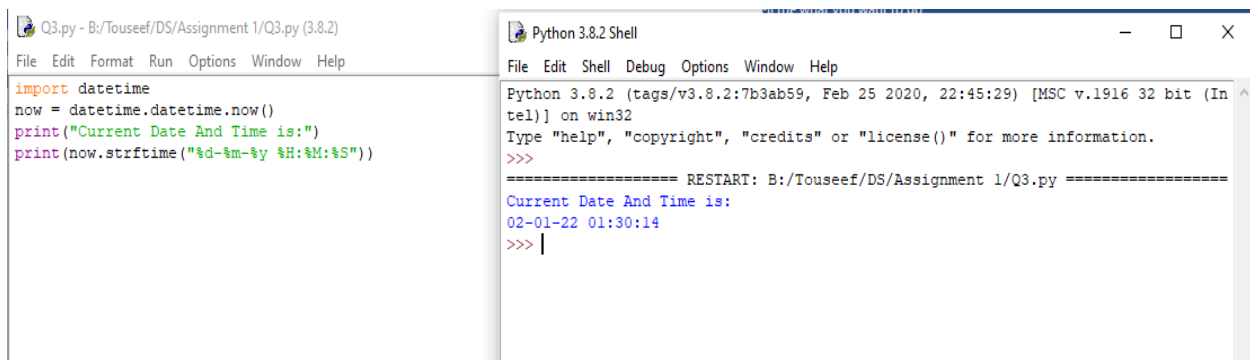
Qno #03

Answer :

CODE:

```
import datetime
now = datetime.datetime.now()
print("Current Date And Time is:")
print(now.strftime("%d-%m-%y %H:%M:%S"))
```

OUTPUT :

The image shows a screenshot of a Python 3.8.2 IDE. On the left, a file named 'Q3.py' is open, containing the following code:

```
import datetime
now = datetime.datetime.now()
print("Current Date And Time is:")
print(now.strftime("%d-%m-%y %H:%M:%S"))
```

On the right, the 'Python 3.8.2 Shell' window displays the output of the code. It shows the Python version and build information, followed by a restart message and the output of the code:

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: B:/Touseef/DS/Assignment 1/Q3.py =====
Current Date And Time is:
02-01-22 01:30:14
>>> |
```

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Qno #04

Answer :

CODE:

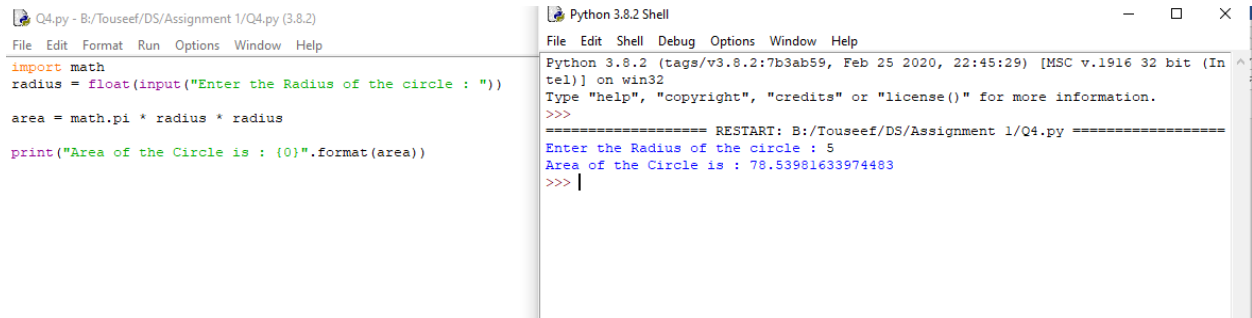
```
import math

radius = float(input("Enter the Radius of the circle : "))

area = math.pi * radius * radius

print("Area of the Circle is : {0}".format(area))
```

OUTPUT :



The screenshot displays two windows from a Windows operating system. The left window is a text editor titled 'Q4.py - B:/Touseef/DS/Assignment 1/Q4.py (3.8.2)' with a menu bar (File, Edit, Format, Run, Options, Window, Help). It contains the following Python code: `import math`, `radius = float(input("Enter the Radius of the circle : "))`, `area = math.pi * radius * radius`, and `print("Area of the Circle is : {0}".format(area))`. The right window is a 'Python 3.8.2 Shell' with a menu bar (File, Edit, Shell, Debug, Options, Window, Help). It shows the execution of the script, including the prompt 'Enter the Radius of the circle : 5' and the output 'Area of the Circle is : 78.53981633974483'.

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: B:/Touseef/DS/Assignment 1/Q4.py =====
Enter the Radius of the circle : 5
Area of the Circle is : 78.53981633974483
>>> |
```

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Qno #05

Answer :

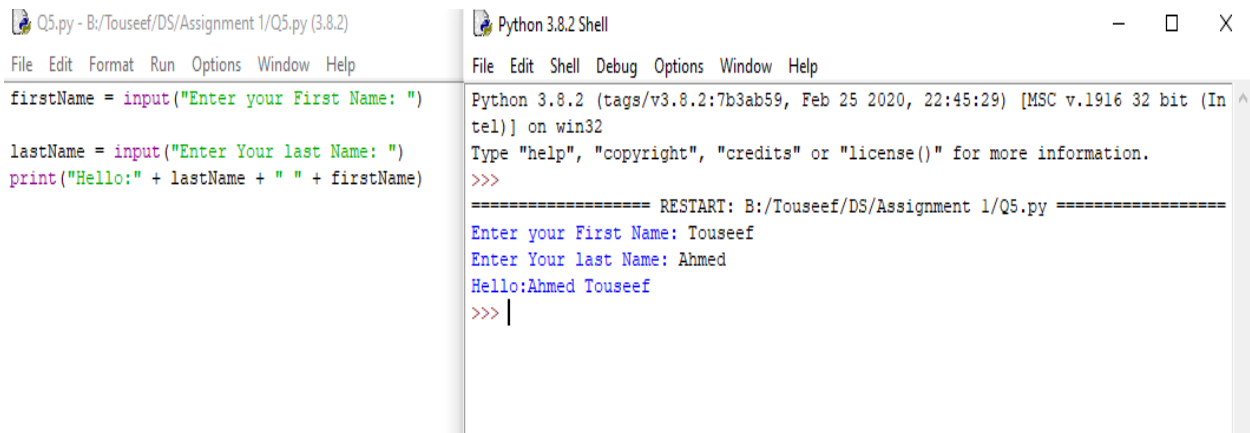
CODE :

```
firstName = input("Enter your First Name: ")
```

```
lastName = input("Enter Your last Name: ")
```

```
print("Hello:" + lastName + " " + firstName)
```

OUTPUT :



```
Q5.py - B:/Touseef/DS/Assignment 1/Q5.py (3.8.2)
File Edit Format Run Options Window Help
firstName = input("Enter your First Name: ")
lastName = input("Enter Your last Name: ")
print("Hello:" + lastName + " " + firstName)

Python 3.8.2 Shell
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: B:/Touseef/DS/Assignment 1/Q5.py =====
Enter your First Name: Touseef
Enter Your last Name: Ahmed
Hello:Ahmed Touseef
>>> |
```

NAME : TOUSEEF AHMED

Qno #06

Answer :

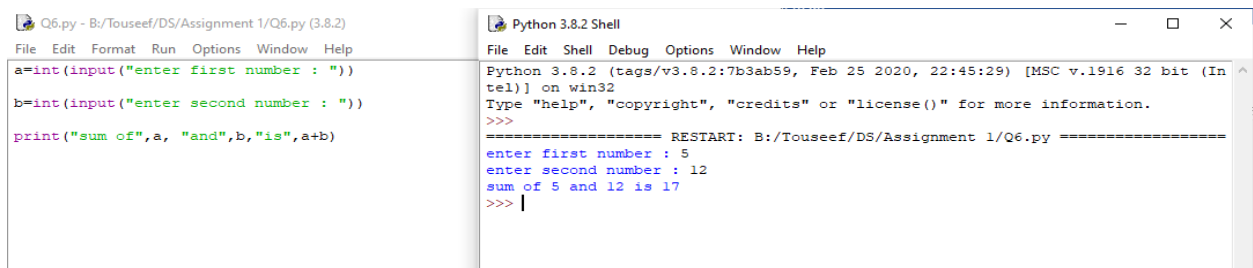
CODE :

```
a=int(input("enter first number : "))
```

```
b=int(input("enter second number : "))
```

```
print("sum of",a, "and",b,"is",a+b)
```

OUTPUT :



The image shows a screenshot of a Python IDE (likely PyCharm) and its integrated shell. The IDE window on the left displays a file named 'Q6.py' with the following code:

```
a=int(input("enter first number : "))
b=int(input("enter second number : "))
print("sum of",a, "and",b,"is",a+b)
```

The Python 3.8.2 Shell window on the right shows the execution of the program. It displays the prompts and user input for the first and second numbers, followed by the output of the sum.

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: B:/Touseef/DS/Assignment 1/Q6.py =====
enter first number : 5
enter second number : 12
sum of 5 and 12 is 17
>>> |
```