**1. Write a Python program to print the following string in a specific format**

Sample String : "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"

print("Twinkle, twinkle, little star, \n\tHow I wonder what you are! \n\t\tUp above the world so high, \n\t\tLike a diamond in the sky. \nTwinkle, twinkle, little star, \n\tHow I wonder what you are!")

**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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**2. Write a Python program to find out what version of Python you are using.**

import sys  
print("Python version")  
print (sys.version)  
print("Version info.")  
print (sys.version\_info)

Python version

3.11.4 (tags/v3.11.4:d2340ef, Jun 7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)]

Version info.

sys.version\_info(major=3, minor=11, micro=4, releaselevel='final', serial=0)

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**3. Write a Python program to display the current date and time.**

import datetime  
now = datetime.datetime.now()  
print ("Current date and time : ")  
print (now.strftime("%Y-%m-%d %H:%M:%S"))

Current date and time :

2023-08-24 13:24:38

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**4. Write a Python program that calculates the area of a circle based on the radius entered by the user.**

from math import pi  
r = float(input ("Input the radius of the circle : "))  
area= pi \* r \*\* 2  
print ("The area of the circle is: ", area )

Input the radius of the circle : 5

The area of the circle is: 78.53981633974483

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**5. Write a Python program that accepts the user's first and last name and prints them in reverse order with a space between them.**

fname = input("Input your First Name : ")  
lname = input("Input your Last Name : ")  
print ("Hello " + lname + " " + fname)

Input your First Name : Jareena

Input your Last Name : Shaikh

Hello Shaikh Jareena

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**6. Write a Python program that accepts a sequence of comma-separated numbers from the user and generates a list and a tuple of those numbers.  
Sample data : 3, 5, 7, 23  
Output :  
List : ['3', ' 5', ' 7', ' 23']  
Tuple : ('3', ' 5', ' 7', ' 23')**

values = input("Input some comma separated numbers : ")  
list = values.split(",")  
print('List:', list)  
tuple = tuple(list)  
print('Tuple : ',tuple)

Input some comma seprated numbers : 11,22,33,A,Jareena,(23,55),{10,2.5}

List: ['11', '22', '33', 'A', 'Jareena', '(23', '55)', '{10', '2.5} ']

Tuple : ('11', '22', '33', 'A', 'Jareena', '(23', '55)', '{10', '2.5} ')

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**7. Write a Python program that accepts a filename from the user and prints the extension of the file.**

filename = input("Input the Filename: ")  
f\_extns = filename.split(".")  
print ("The extension of the file is : ",f\_extns[-1])

Input the Filename: hello.py

The extension of the file is : py

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**8. Write a Python program to display the first and last colors from the following list.  
color\_list = ["Red","Green","White" ,"Black"]**

color\_list = ["Red","Green","White" ,"Black"]  
print( color\_list[0],color\_list[-1])

Red Black

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