

Assignment 3

Qno1: Write a Python program to print the following string in a specific format (see the output)

```
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""")
```

```
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,
\t How I wonder what you are!
\t\tUp above thw world so high,
\t\t Like a diamond in the sky,
Twinkle, twinkle, little star,
\tHow I wonder what you are""")
```

```
Twinkle, twinkle, little star,
    How I wonder what you are!
    Up above thw world so high,
    Like a diamond in the sky,
Twinkle, twinkle, little star,
    How I wonder what you are
```

Qno2: Write a Python program to get the Python version you are using

```
import sys

print("My python version is: ", sys.version)

My python version is:  3.12.4 | packaged by Anaconda, Inc. | (main,
Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)]
```

Qno3: Write a Python program to display the current date and time.

```
from datetime import datetime
print("Current date and time is",datetime.now())

Current date and time is 2024-08-03 10:20:39.137733
```

Qno4. Write a Python program which accepts the radius of a circle from the user and compute the area.

```
import math as m
r = float(input("Enter the radius of circle: "))
area = m.pi*(r**2)
print("The area of circle is:",area)
```

Enter the radius of circle: 5

The area of circle is: 78.53981633974483

Qno5. Write a Python program which accepts the user's first and last name and print them in reverse order with a space between them

```
x = str(input("Enter your first name: "))
y = str(input("Enter your last name: "))
print(y," ",x)
```

Enter your first name: Zaryab

Enter your last name: Khan

Khan Zaryab

Qno6. Write a python program which takes two inputs from user and print them addition

```
x = float(input("Enter 1st num:"))
y= float(input("Enter 2nd num:"))
print("sum =",x+y)
```

Enter 1st num: 5.5

Enter 2nd num: 6

sum = 11.5

Qno7. Write a program which takes 5 inputs from user for different subject's marks, total it and generate mark sheet using grades

```
subj1 = float(input("Enter marks of 1st Subj :"))
subj2 = float(input("Enter marks of 2nd Subj :"))
subj3 = float(input("Enter marks of 3rd Subj :"))
subj4 = float(input("Enter marks of 4th Subj :"))
subj5 = float(input("Enter marks of 5th Subj :"))
Obtained_Marks = subj1+subj2+subj3+subj4+subj5
Total_Marks = float(input("Enter the total marks:"))
percentage = (Obtained_Marks/Total_Marks)*100
if percentage >= 80:
    grade="A+"
elif 80 < percentage < 70:
    grade="A"
```

```

elif 70<percentage<=60:
    grade="B"
elif 60<percentage<=50:
    grade="C"
else:
    grade="Fail"
print("Total Marks =",Total_Marks,"\nObtained
Marks=",Obtained_Marks,"\nPercentage=",percentage, "%","\
nGrade=",grade)

```

```

Enter marks of 1st Subj : 95
Enter marks of 2nd Subj : 65
Enter marks of 3rd Subj : 87
Enter marks of 4th Subj : 96
Enter marks of 5th Subj : 80
Enter the total marks: 500

```

```

Total Marks = 500.0
Obtained Marks= 423.0
Percentage= 84.6 %
Grade= A+

```

Qno8: Write a program which take input from user and identify that the given number is even or odd?

```

x = float(input("Enter a number: "))
if x%2==0:
    print(x, "is a even number")
else:
    print(x, "is a odd number")

```

```

Enter a number: 95

```

```

95.0 is a odd number

```

Qno9. Write a program which print the length of the list

```

z = [1,2,3,4,5,6]
len(z)

```

```

6

```

Qno10. Write a Python program to sum all the numeric items in a list

```

items = ["Fruit",2,"Banana","Ali",7,"Ahmed",8,-1]
sum=0
for i in items:
    if isinstance(i, (int,float)):

```

```
    sum +=i
print("The sum of all the numeric values are:",sum)
```

The sum of all the numeric values are: 16

Qno11. Write a Python program to get the largest number from a numeric list.

```
List = [1,2,3,4,5,6,7,-9]
print(max(List))
```

7

```
List = [1,2,3,4,5,6,7,-9]
largest_num=List[0]
for i in List:
    if i>largest_num:
        largest_num=i
print(largest_num)
```

7

Qno12. Take a list, say for example this one: a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89] Write a program that prints out all the elements of the list that are less than 5.

```
a = [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89]
for i in a:
    if i<5:
        print(i)
```

1

1

2

3