Question 1 to 150

Q1 = Write a Python program to print the following string in a specific format (see the output).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, tiwinkle, 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 woner that you are""")
```

```
Twinkle, tiwinkle, 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 woner that you are
```

Q2 - Write a Python program to find out what version of Python you are using

```
sys.version
```

```
'3.12.7 | packaged by Anaconda, Inc. | (main, Oct  4 2024, 13:17:27)
[MSC v.1929 64 bit (AMD64)]'
```

Q3 - Write a Python program to display the current date and time.

Sample Output : Current date and time : 2014-07-05 14:34:14

```
from datetime import datetime

a = datetime.now()

print(a)
```

```
2025-06-18 17:16:57.902628
```

Q4 - Write a Python program that calculates the area of a circle based on the radius entered by the user.

Sample Output : r = 1.1 Area = 3.8013271108436504

```
from math import pi

r = float(input("input the radius of circle : "))
```

```
input the radius of circle :  1.1
```

```
area = pi * r ** 2

print(f"r = {r} area = {area}")

r = 1.1 area = 3.8013271108436504
```

Q5 -Write a Python program that accepts the user's first and last name and prints them in reverse order with a space between them.

```
First_name = input("First_name ")
Last_name = input("Last_name")
print(f"{Last_name} {First_name}")

First_name  Manoj
Last_name Pandey

Pandey Manoj
```

Q6 - 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')

```
numbers = input("Enter comma-separated numbers: ")
num_list = numbers.split(',')
num_tuple = tuple(num_list)

print("List:", num_list)
print("Tuple:", num_tuple)

Enter comma-separated numbers:  3,5,7,23

List: ['3', '5', '7', '23']
Tuple: ('3', '5', '7', '23')
```

Q7 - Write a Python program that accepts a filename from the user and prints the extension of the file.

Sample filename : abc.java Output : java

```
filename = input("give me the file name ")
f_extent = filename.split(" . ")
print("the extension of the file is : " + repr(f_extent[-1]))

give me the file name  ab.java

the extension of the file is : 'ab.java'
```

Q8 -Write a Python program to display the first and last colors from the following list.

color_list = ["Red","Green","White" ,"Black"]

```
colours = input("Give me the colours list: ")
col = colours.split(',')  # Convert comma-separated string to list
print("Here are two colours:", repr(col[0]), "and", repr(col[2]))
```

```
Give me the colours list:  red , green ,white , black
```

```
Here are two colours: 'red ' and 'white '
```

```
# Create a list called 'color_list' containing color names
color_list = ["Red", "Green", "White", "Black"]
# Print the first and last elements of the 'color_list' using string
formatting
# The '%s' placeholders are filled with the values of 'color_list[0]'
(Red) and 'color_list[-1]' (Black)
print("%s %s" % (color_list[0], color_list[-1]))
```

```
Red Black
```

Q9- Write a Python program to display the examination schedule. (extract the date from exam_st_date).

exam_st_date = (11, 12, 2014) Sample Output : The examination will start from : 11 / 12 / 2014

```
DATE = (11, 12, 2014)
print("The examination will start from: %i / %i / %i" % (DATE))
```

```
The examination will start from: 11 / 12 / 2014
```

Q10 = Write a Python program that accepts an integer (n) and computes the value of n+nn+nnn.

Sample value of n is 5 Expected Result : 615

```
a = int(input("here is an interget"))
n1 = int("%s" % a )
n2 = int("%s%s" %(a,a ))
n3 = int("%s%s%s" % (a,a,a))
print(n1+n2+n3)
```

```
here is an interget 5
```

```
615
```

Q11 = Write a Python program to print the documents (syntax, description etc.) of Python built-in function(s).

Sample function : abs() Expected Result : *abs(number) -> number* Return the absolute value of the argument

```
print(abs.__doc__)

Return the absolute value of the argument.

print(len.__doc__)

Return the number of items in a container.

print(sorted.__doc__)

Return a new list containing all items from the iterable in ascending
order.

A custom key function can be supplied to customize the sort order, and
the
reverse flag can be set to request the result in descending order.

print(sum.__doc__)

Return the sum of a 'start' value (default: 0) plus an iterable of
numbers

When the iterable is empty, return the start value.
This function is intended specifically for use with numeric values and
may
reject non-numeric types.

print(map.__doc__)
print(filter.__doc__)

map(func, *iterables) --> map object

Make an iterator that computes the function using arguments from
each of the iterables.  Stops when the shortest iterable is exhausted.
filter(function or None, iterable) --> filter object

Return an iterator yielding those items of iterable for which
function(item)
is true. If function is None, return the items that are true.
```

Q12 =Write a Python program that prints the calendar for a given month and year.

- Note : Use 'calendar' module.

```
import calendar
y = int(input("print the year boss"))
m = int(input("print the month baby"))
```

```
print(calendar.month(y,m))

print the year boss 2025
print the month baby 7

     July 2025
Mo Tu We Th Fr Sa Su
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31


calendar.prmonth(2034,5)

      May 2034
Mo Tu We Th Fr Sa Su
 1  2  3  4  5  6  7
 8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

Q13 - Write a Python program to print the following 'here document'.

- Sample string :
- a string that you "don't" have to escape
- This
- is a ..... multi-line
- heredoc string --------> example

```
print("""
a string that you "dont have to escape
This
is a ......muti-line
hearodoc string --------> example
""")


a string that you "dont have to escape
This
is a ......muti-line
hearodoc string --------> example
```

Q14=Write a Python program to calculate the number of days between two dates.

- Sample dates : (2014, 7, 2), (2014, 7, 11)
- Expected output : 9 days

```
from datetime import date

a = date (2014, 7, 2)
b = date (2014, 7, 11)

hours = b-a           #if u try without .days u will get both days as
well time
print(hours.days)
```

```
9
```

Q15 - Write a Python program to get the volume of a sphere with radius six.

```
import math
radius = 6
volume = 4/3 * math.pi * radius **3

print('volume of the sphere with radius 6 is:', volume)
```

```
volume of the sphere with radius 6 is: 904.7786842338603
```

Q16 - Write a Python program to calculate the difference between a given number and 17. If the number is greater than 17, return twice the absolute difference.

```
#self
g=int(input("first number here"))
o=int(input(" seond number"))

b = g-o
c = b*2
print('the number difference is:',b)
print("twice the number is:",c)
```

```
first number here 20
 seond number 10

the number difference is: 10
twice the number is: 20
```

```
#2nd method

def difference(n):
    if n<= 17:
        return 17-n

    else:
        return(n-17)*2


num = int(input("enter a number dude"))
```

```
print((difference(num)))
```

```
enter a number dude 5

12
```

Q17 - Write a Python program to test whether a number is within 100 of 1000 or 2000.

```
def thousand(n):
    return ((abs(1000-n) <= 100) or (abs(2000 - n) <= 100))

print(thousand(500))
print(thousand(1500))
print(thousand(1000))
```

```
False
False
True
```

```
def test(n):
    if n <= 100:
        return ("100 ke andr h bhai")

    elif n <= 1000:
         return("Bigger then 100 but shorter then 1k")

    else:
         return("Bigger then 1k but under 2k")


difference = int(input(" WRITE THE NUMBMER DUDE"))

print(test(difference))
```

```
 WRITE THE NUMBMER DUDE 999

Bigger then 100 but shorter then 1k
```

Q18 = Write a Python program to calculate the sum of three given numbers. If the values are equal, return three times their sum.

```
def sum(a,b,c):
    sum = a +b +c

    if  a==b==c:
        sum = sum*3

    return sum
```

```
print(sum(1,1,1))
print(sum(2,4,1))
```

```
9
7
```

```
def sum(a, b, c):
    if a==b==c:
        return 3*(a + b + c)
    else:
        return a + b + c

print(sum(1, 2, 3))
```

```
6
```

Q19 = Write a Python program to get a newly-generated string from a given string where "Is" has been added to the front. Return the string unchanged if the given string already begins with "Is".

```
def string(s):
    if s.startswith("is"):
        return s
    else:
        return "is" + s

print(string("array"))
print(string("isEmpty"))
```

```
isarray
isEmpty
```

Q20 =Write a Python program that returns a string that is n (non-negative integer) copies of a given string.

```
def laptop(text , n ):
    result = " "

    for i in range(n):
        result = result + text

    return result

print(laptop(" manoj " , 5))
```

```
  manoj  manoj  manoj  manoj  manoj
```

```
def mobile(text , n):
    result = ""
```

```
    for i in range(n):
        result= result + text
    return result

print(mobile("iphone " , 15))
```

```
iphone iphone iphone iphone iphone iphone iphone iphone iphone iphone
iphone iphone iphone iphone iphone
```