```
# # 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')


numbers=(input("enter the number : "))

numbers_list=numbers.split(",")

numbers_tuple= tuple(numbers)


print(numbers_list)
print(numbers_tuple)
```

```
enter the number : 2,3,4,5,6,7,8,9
['2', '3', '4', '5', '6', '7', '8', '9']
('2', ',', '3', ',', '4', ',', '5', ',', '6', ',', '7', ',', '8', ',', '9')
```

```
# 7. 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("enter the name :")

file_extension=filename.split(".")[-1]

print("File extension: ",file_extension)
```

```
enter the name :abc.python
File extension:  python
```

```
# 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("First colour:",color_list[0])
print("last colour:",color_list[3])
```

```
First colour: Red
last colour: Black
```

```
# 9. 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

exam_st_date = (11, 12, 2014)

formatted_date=f'{exam_st_date[0]}/{exam_st_date[1]}/{exam_st_date[2]}'

print("The examination will start from :",formatted_date)
```

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

```
# 10. 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

n=int(input("enter the number :"))
```

```
result= n + int(f"{n}{n}")+int(f"{n}{n}{n}")

print("Result",result)
```

```
enter the number :5
Result 615
```

```
# 11. 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.
```

```
# 12. Write a Python program that prints the calendar for a given month and year.
# Note : Use 'calendar' module.

import calendar

month = int(input("Enter the month (1-12): "))
year = int(input("Enter the year: "))

print(calendar.month(year, month))
```

```
Enter the month (1-12): 7
Enter the year: 2025
     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
```

```
# 13. 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

# Using triple quotes to define the multi-line string
print("""a string that you "don't" have to escape
This
is a ....... multi-line
heredoc string --------> example""")
```

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

```
# 14. 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


date1 = date(2014, 7, 2)
date2 = date(2014, 7, 11)


date_diff = date2 - date1


print(f"{date_diff.days} days")
```

```
9 days
```

```
# 15. Write a  Python program to get the volume of a sphere with radius six.
```

```
# 16. 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.
```

```
# 17. Write a Python program to test whether a number is within 100 of 1000 or 2000.
```

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

num1=int(input("enter the number :"))
num2=int(input("enter the number :"))
num3=int(input("enter the number :"))


if num1==num2==num3:
  result=3*(num1+num2+num3)
else:
  result=(num1+num2+num3)

print("Result",result)
```

```
enter the number :10
enter the number :10
enter the number :10
Result 90
```

```
# 19. 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".

stri=input("enter the string :")

if stri.startswith("Is"):
  new_stri=stri
else:
  new_stri="Is "+stri

print("String",new_stri)
```

```
enter the string :anurag
String Is anurag
```

```
# 20. Write a Python program that returns a string that is n (non-negative integer) copies of a given string.

strin=input("enter the string:")

n=int(input("enter the number :"))


result=strin * n

print("Result", result)
```

```
enter the string:rest
enter the number :3
Result restrestrest
```

```
# 21. Write a Python program that determines whether a given number (accepted from the user) is even or odd,
#  and prints an appropriate message to the user

num=int(input("enter the number :"))

if num%2==0:
  print("number is even")
else:
  print("number is odd")
```

```
enter the number :24
number is even
```

```
# Write a Python program to count the number 4 in a given list.

list1=[1,2,3,4,6,7,4]

count=list1.count(4)

print(count)
```

```
2
```

```
# 23. Write a Python program to get n (non-negative integer) copies of the first 2 characters of a given string.
#  Return n copies of the whole string if the length is less than 2.


given_string = input("Enter a string: ")

n = int(input("Enter the number of copies: "))

if len(given_string) < 2:
    result = given_string * n
else:
    result = given_string[:2] * n

print("Resulting string:", result)
```

```
Enter a string: an
Enter the number of copies: 2
Resulting string: anan
```

Start coding or generate with AI.