1. **Create a list of integers from 1 to 10.**

```
1    list=[]
2    for i in range(1,11):
3        list.append(i)
4    print(list)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen> & "C:/Users/G praveen/AppData/Local/Programs/Pyt
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
PS C:\Users\G praveen>
```

2. **Write a Python code to append an element to the end of a list.**

```
1    v=[2,4,6,8]
2    v.append(10)
3    print(v)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen> & "C:/Users/G praveen/AppData/Local/P
[2, 4, 6, 8, 10]
PS C:\Users\G praveen>
```

3. **How can you access the first element of a list?**

```
2    list=[2,4,5,6,9]
3    print(list[0])
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen> & "C:/Users/G praveen/AppDat
2
PS C:\Users\G praveen>
```

4. **How do you remove the last element from a list?**

```
1    a=[2,4,9,12,5]
2    a.remove(a[-1])
3    print(a)
4
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users
[2, 4, 9, 12]
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

5. **How can you find the length of a list?**

```python
v1.py > ...
1    list=[2,4,9,12,5]
2    length=len(list)
3    print(length)
4
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G pravee
5
PS C:\Users\G praveen\OneDrive\Desktop\strings>

6. **Write a Python program to find the largest number in a list.**

```python
v1.py > ...
1    list=[2,4,9,12,5]
2    lar=0
3    for i in list:
4        if i>lar:
5            lar=i
6    print(lar)
7
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G prav
12
PS C:\Users\G praveen\OneDrive\Desktop\strings>

7. **How can you sort a list in ascending order?**

```
1   list=[2,10,9,1,5]
2   list.sort()
3   print(list)
4
5
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/App
[1, 2, 5, 9, 10]
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

8. **Write a code to check if an element is present in a list or not.**

```
1   list=[2,10,9,1,5]
2   element=10
3   if element in list:
4       print(f"{element} is in the list")
5   else:
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/AppData/L
10 is in the list
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

9.

9.

9. How do you find the index of an element in a list?

```python
list=[2,10,9,1,5]
element=10
index=list.index(element)
print(index)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/AppData/Local/Pr
1
PS C:\Users\G praveen\OneDrive\Desktop\strings>

10. How can you create a list of 5 elements, then remove all of them?

```python
list=[]
for i in range(1,6):
    list.append(i)
    list.clear()
print(list)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/AppData/
[]
PS C:\Users\G praveen\OneDrive\Desktop\strings>

11. How can you slice a list to get elements from index 2 to 5?

```
1   list=[2,5,7,9,0,3,1]
2   print(list[2:5])
3
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G pr
[7, 9, 0]
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

12. How can you concatenate two lists in Python?

```
1   list=[2,5,7,9]
2   list2=[4,3]
3   a=list+list2
4   print(a)
5
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G prave
[2, 5, 7, 9, 4, 3]
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

13. How can you copy a list into another list?

```
1    list1=[2,5,7,9]
2    list2=list1.copy()
3    print(list2)
4    |
5
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users
[2, 5, 7, 9]
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

14. Write a Python program to count the number of times an element appears in a list.

```
2    v=[2,3,7,6,3]
3    count=0
4    for i in v:
5        if i==3:
6            count+=1
7    print(count)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/
2
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

15. How can you check if a list is empty?

```
2
3    list = []
4    if len(list) == 0:
5        print("The list is empty.")
6    else:
7        print("The list is not empty.")
8
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G p
The list is empty.
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

16. Create a string variable that holds your name and print it.

```
2
3    name="praveen varma"
4    for i in name:
5        print(i,end='')
6
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G prav
praveen varma
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

17. How do you convert a string to uppercase in Python?

```
3    name="praveen varma"
4    print(name.upper())
5    |
6
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/Ap
PRAVEEN VARMA
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

18. Write a code to check if a string contains a specific substring.

```
v1.py > ...
1    text1="I love my India"
2    text2="India"
3    if text2  in text1:
4        print(f"{text2} is present in the text1")
5    else:
6        print(f"{text2} is not present in the text1")
7
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/AppD
India is present in the text1
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

19. How can you find the length of a string in Python?

```
2    v="praveen varama"
3    length=len(v)
4    print(length)
5
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G prav
14
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```

20. Write a Python program to reverse a string.

```
1
2    v="praveen varma"
3    a=v[::-1]
4    print(a)
5
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\G praveen\OneDrive\Desktop\strings> & "C:/Users/G praveen/App
amarav neevarp
PS C:\Users\G praveen\OneDrive\Desktop\strings>
```