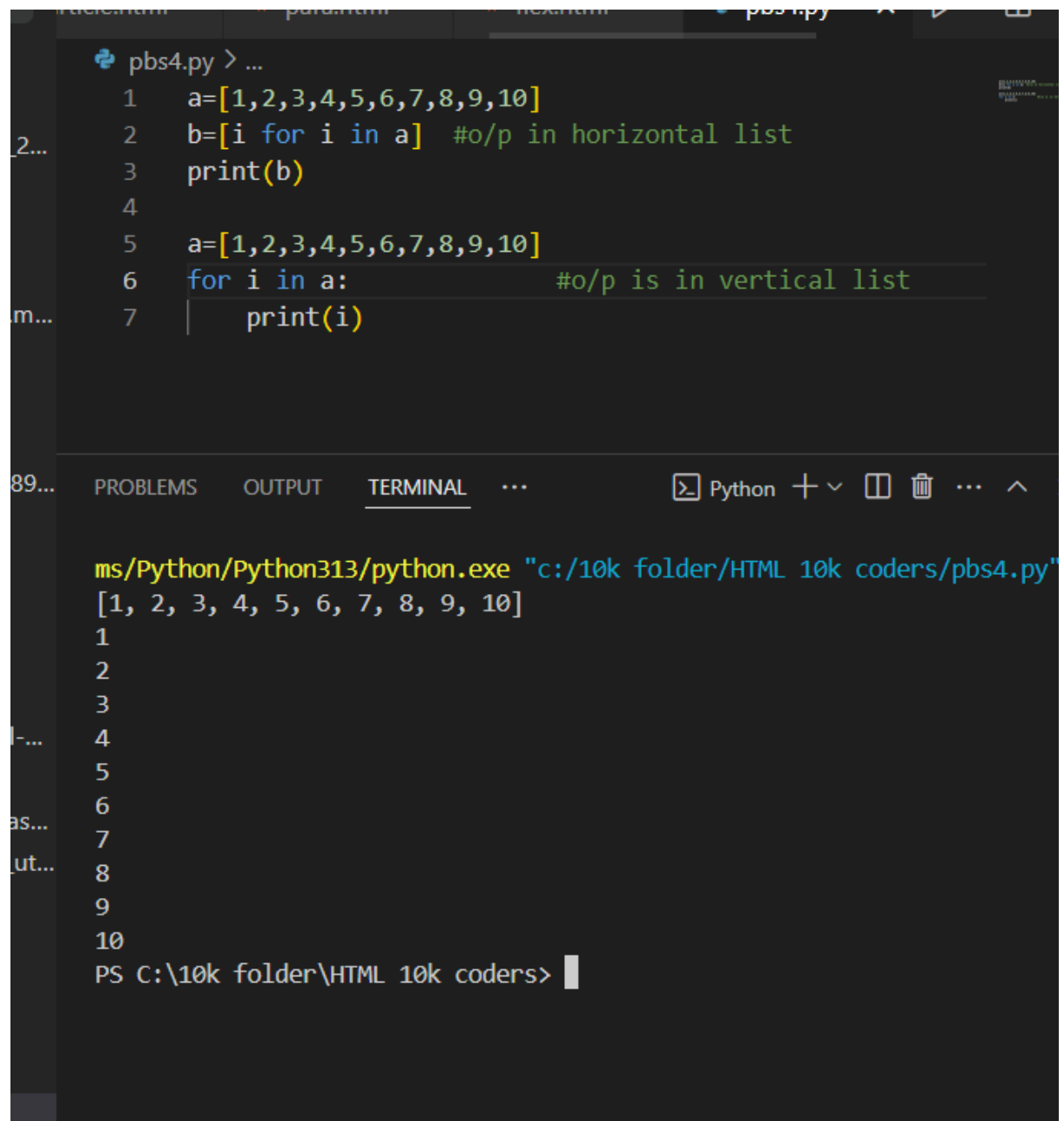


Create a list of integers from 1 to 10.



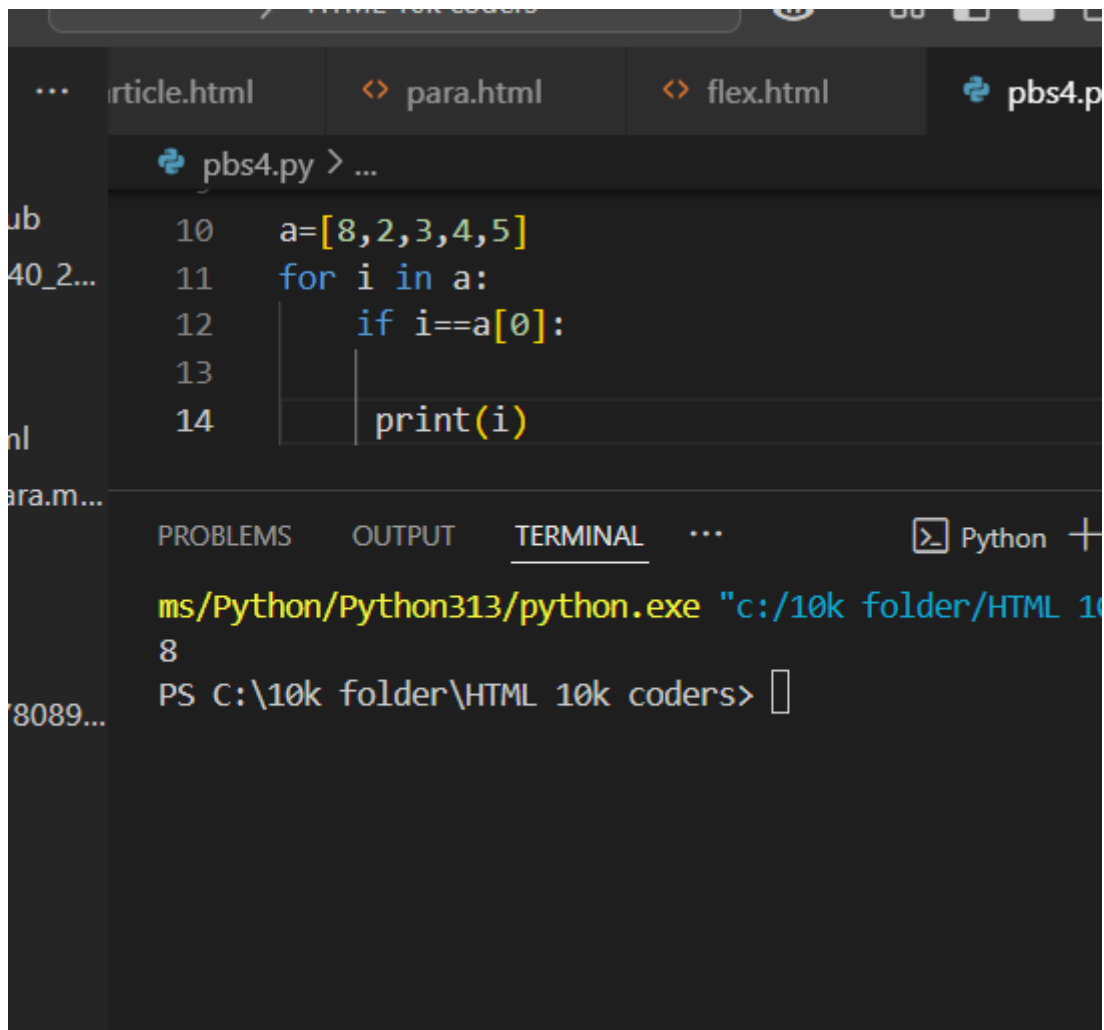
The image shows a code editor with a file named `pbs4.py` and a terminal window below it. The code in the editor defines a list `a` with integers from 1 to 10, creates a new list `b` using a list comprehension, and prints `b`. It then prints each element of `a` in a vertical list. The terminal shows the execution of the script, displaying the horizontal list `[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]` followed by the numbers 1 through 10 on separate lines.

```
pbs4.py > ...
1 a=[1,2,3,4,5,6,7,8,9,10]
2 b=[i for i in a] #o/p in horizontal list
3 print(b)
4
5 a=[1,2,3,4,5,6,7,8,9,10]
6 for i in a: #o/p is in vertical list
7     print(i)
```

ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/pbs4.py"

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
1
2
3
4
5
6
7
8
9
10
PS C:\10k folder\HTML 10k coders>
```

How can you access the first element of a list?



The image shows a screenshot of a code editor with a dark theme. At the top, there are tabs for 'article.html', 'para.html', 'flex.html', and 'pbs4.py'. The 'pbs4.py' tab is active, showing a Python script with the following code:

```
10 a=[8,2,3,4,5]
11 for i in a:
12     if i==a[0]:
13
14     print(i)
```

Below the code editor, there is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the command prompt output:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/10k coders.py"
8
PS C:\10k folder\HTML 10k coders>
```

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

The screenshot shows a code editor with a dark theme. The top part displays a file explorer on the left with a list of files including 'article.html', 'para.html', 'flex.html', and 'pbs4.py'. The main editor area shows the contents of 'pbs4.py', which contains the following Python code:

```
16  
17  
18  
19 a=[1,2,3,4]  
20 a.append(6)  
21 print(a)
```

Below the code editor, there is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the command prompt output:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 1  
[1, 2, 3, 4, 6]  
PS C:\10k folder\HTML 10k coders>
```

How do you remove the last element from a list?

```
125
126
127 a=[1,6,7,8,9]
128 del a[len(a)-1]
129 print(a)
130 |
```

PROBLEMS

OUTPUT

TERMINAL

...

Python + v

```
PS C:\10k folder\HTML 10k coders> & C:/Users/pulip/AppData/Local/Programs/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/cod3.py"
[1, 6, 7, 8]
PS C:\10k folder\HTML 10k coders>
```

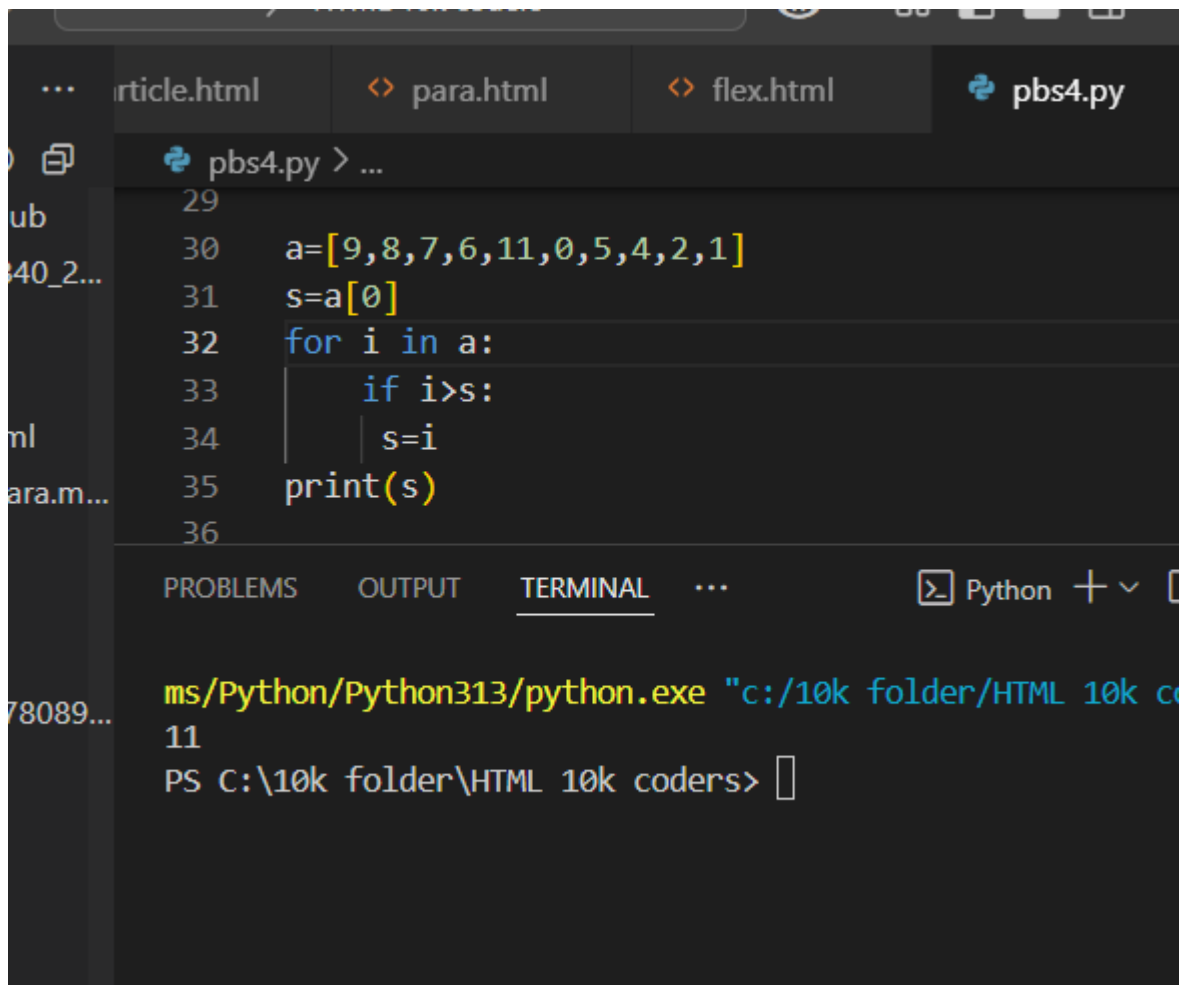
How can you find the length of a list?

```
pbs4.py > ...
27
28
.. 29
30 a=[0,9,7,6,5,4]
31 print(len(a))
32
... 33
```

PROBLEMS OUTPUT TERMINAL ... Python + v

```
> & C:/Users/pulip/AppData/Local/Programs/Python/Python313/python.exe "c:/10k folder/HTML 10k coders.py"
6
PS C:\10k folder\HTML 10k coders> |
```

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

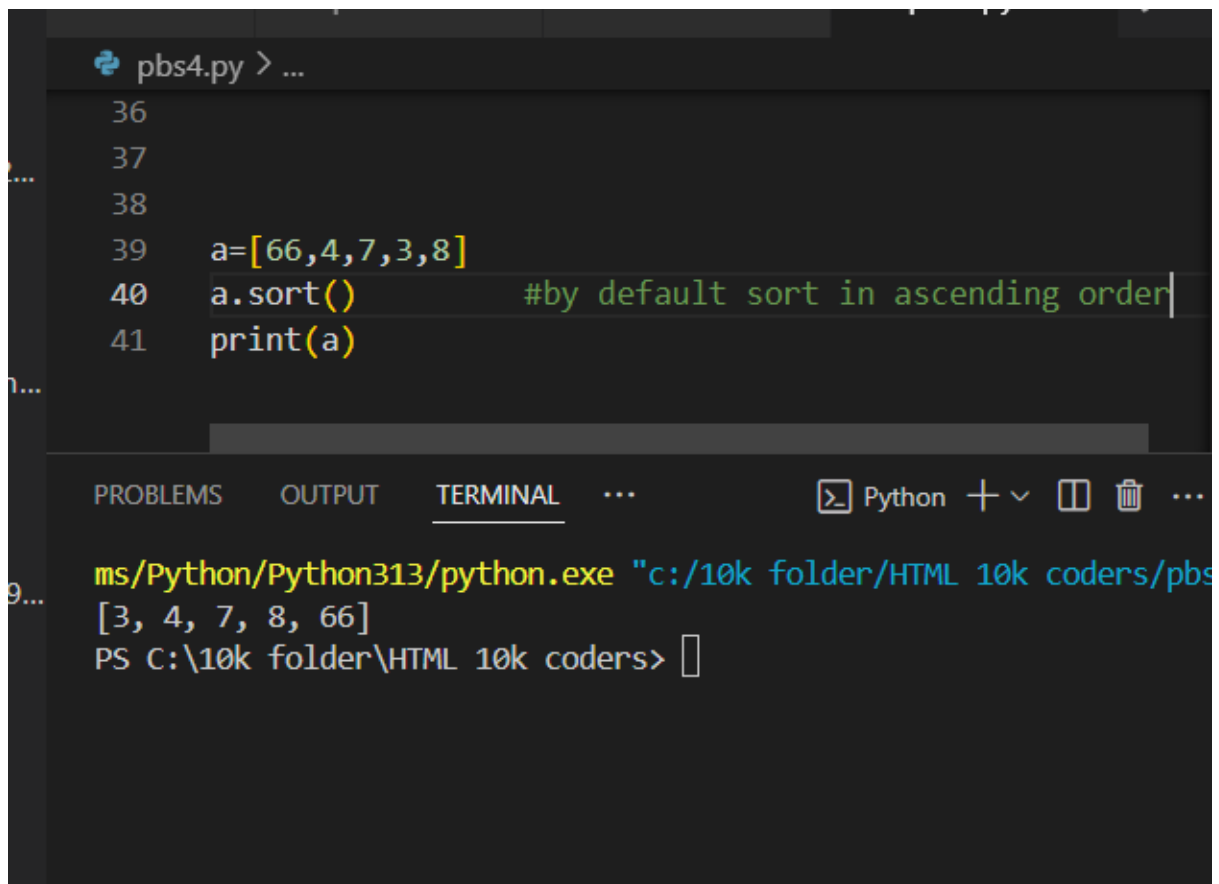


The image shows a code editor with a dark theme. At the top, there are tabs for 'article.html', 'para.html', 'flex.html', and 'pbs4.py'. The 'pbs4.py' tab is active, showing a Python script. The script starts with line 29, followed by line 30: `a=[9,8,7,6,11,0,5,4,2,1]`, line 31: `s=a[0]`, line 32: `for i in a:`, line 33:  `if i>s:`, line 34:  `s=i`, line 35: `print(s)`, and line 36. Below the code editor, there is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the command `ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders"` and the output `11`. The prompt `PS C:\10k folder\HTML 10k coders>` is visible.

```
29
30 a=[9,8,7,6,11,0,5,4,2,1]
31 s=a[0]
32 for i in a:
33     if i>s:
34         s=i
35 print(s)
36
```

ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders"  
11  
PS C:\10k folder\HTML 10k coders>

How can you sort a list in ascending order?



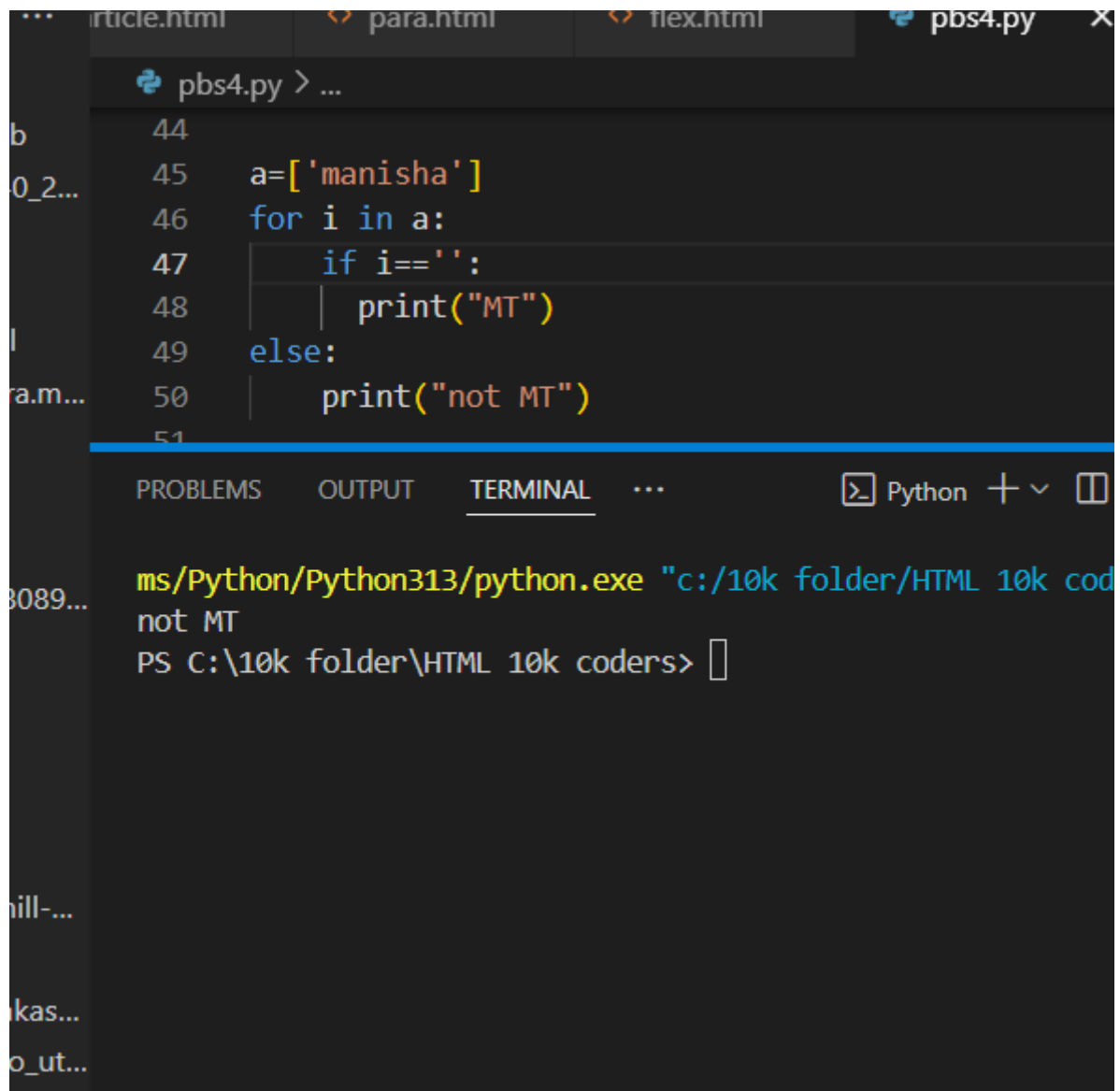
The image shows a screenshot of a code editor with a dark theme. The editor window displays a Python file named 'pbs4.py' with the following code:

```
36
37
38
39 a=[66,4,7,3,8]
40 a.sort()          #by default sort in ascending order
41 print(a)
```

Below the code editor, there is a panel with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the command used to run the script and its output:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/pbs
[3, 4, 7, 8, 66]
PS C:\10k folder\HTML 10k coders>
```

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



The image shows a code editor with a dark theme. At the top, there are tabs for 'article.html', 'para.html', 'flex.html', and 'pbs4.py'. The 'pbs4.py' tab is active, showing a Python script with the following code:

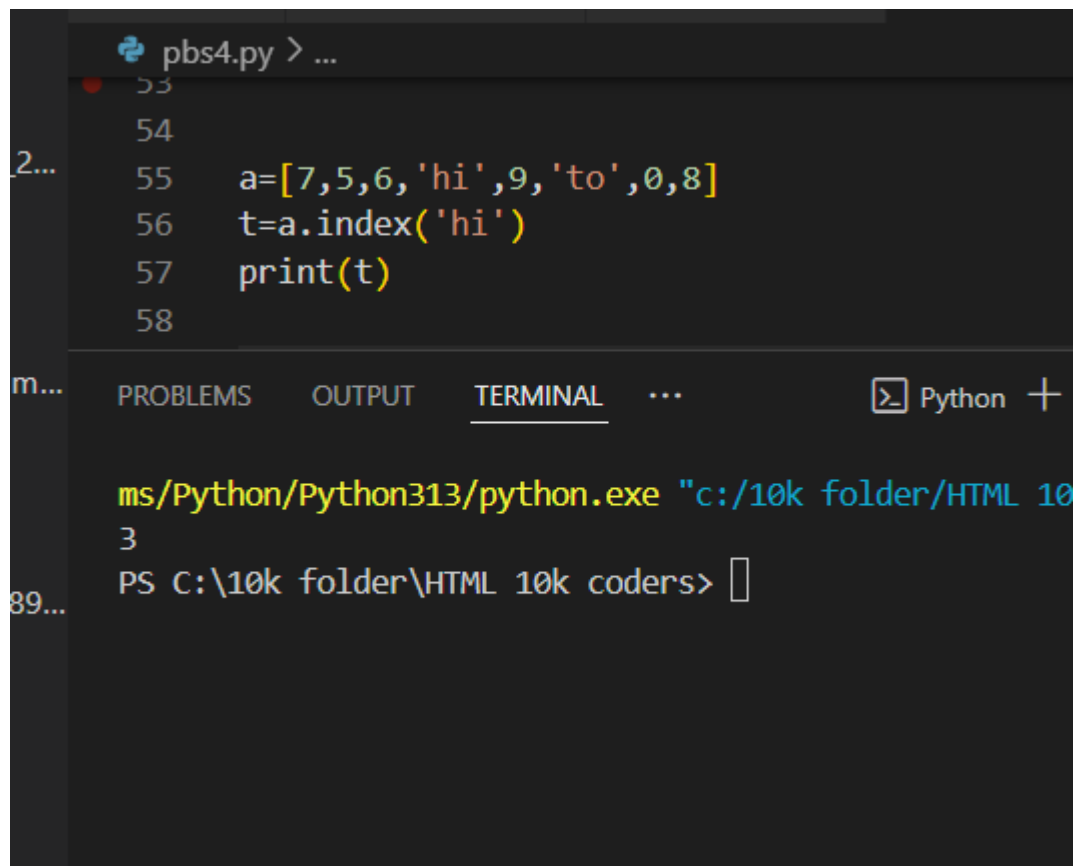
```
44
45 a=['manisha']
46 for i in a:
47     if i=='':
48         print("MT")
49     else:
50         print("not MT")
51
```

Below the code editor, there is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the command prompt output:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k cod
not MT
PS C:\10k folder\HTML 10k coders>
```

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





The image shows a code editor window with a file named `pbs4.py`. The code in the editor is as follows:

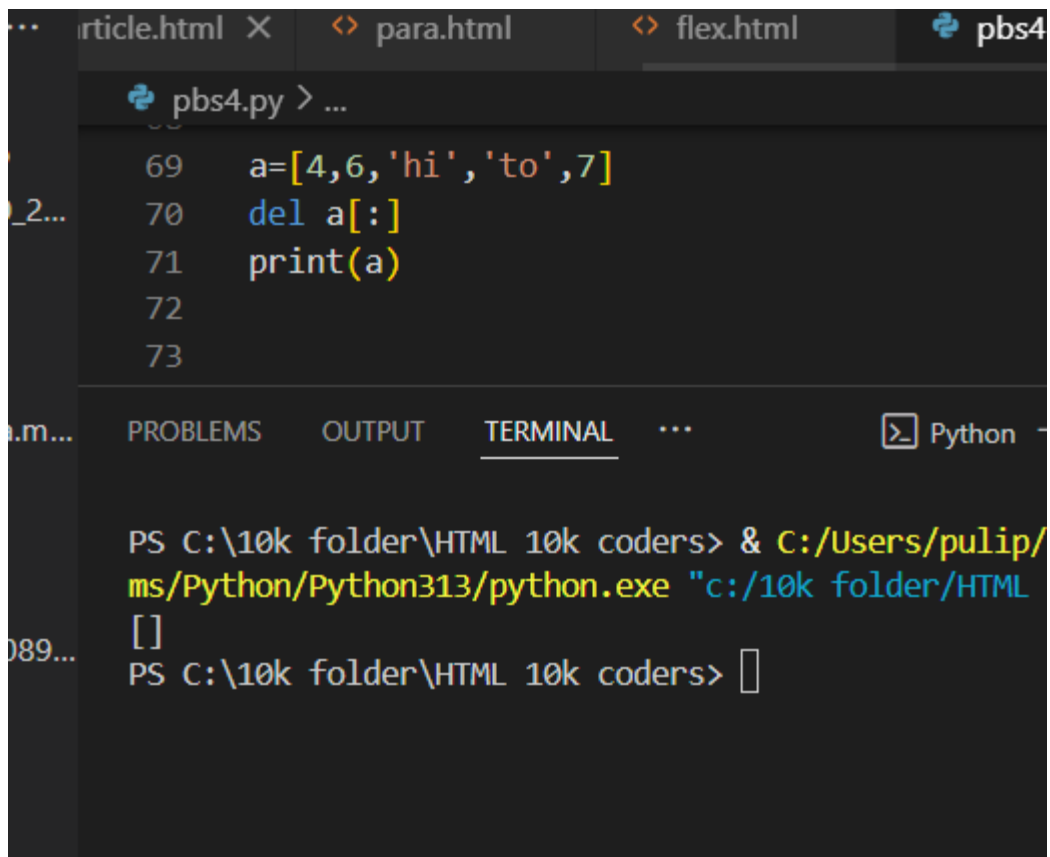
```
53  
54  
55 a=[7,5,6,'hi',9,'to',0,8]  
56 t=a.index('hi')  
57 print(t)  
58
```

Below the code editor is a terminal window. The terminal shows the command to run the Python script:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/pbs4.py"  
3  
PS C:\10k folder\HTML 10k coders>
```

The terminal output shows the number `3`, which is the index of the string `'hi'` in the list `a`.

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



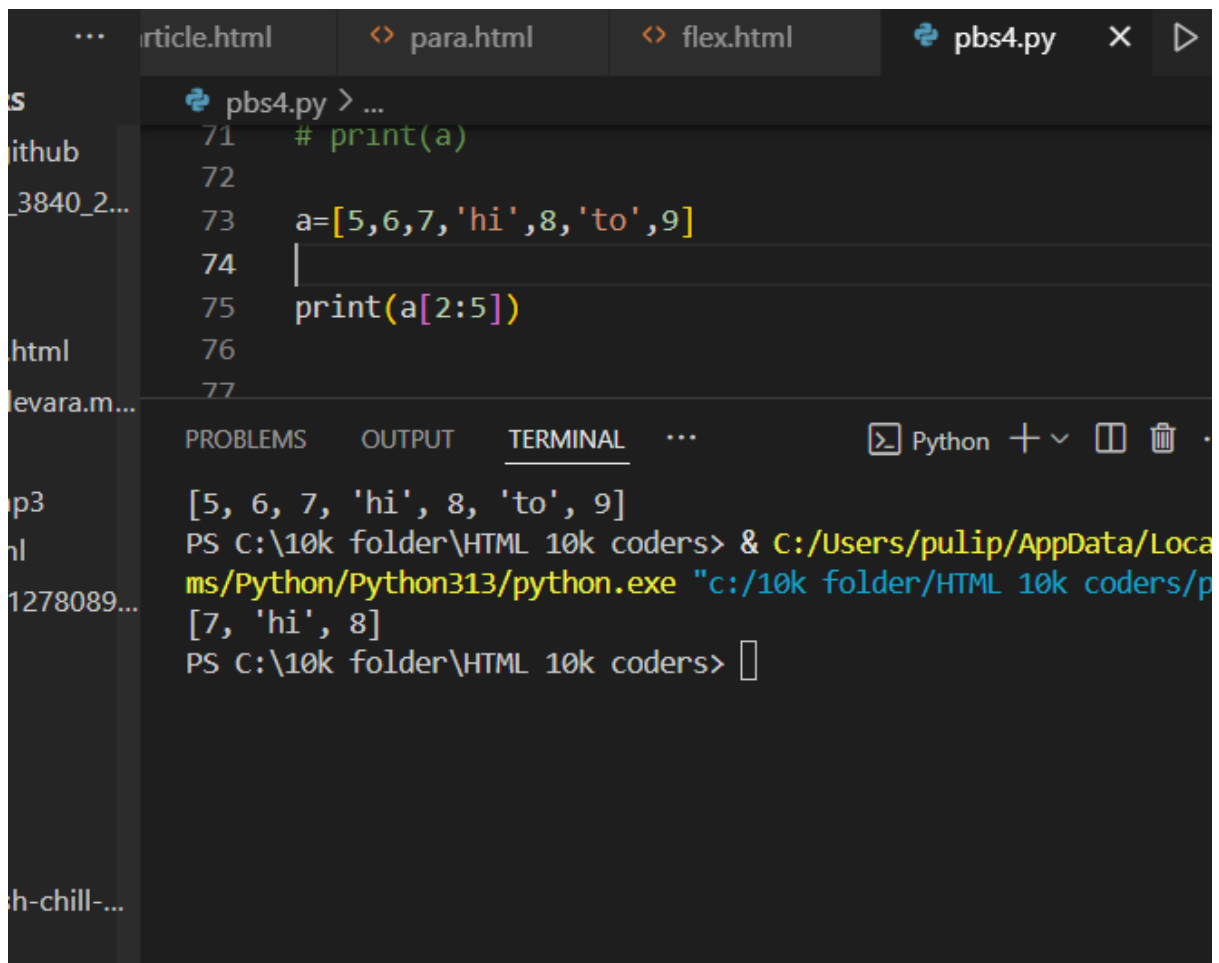
The image shows a code editor with three tabs: 'article.html', 'para.html', and 'flex.html'. The 'pbs4.py' file is open, showing the following code:

```
69 a=[4,6,'hi','to',7]
70 del a[:]
71 print(a)
72
73
```

Below the code editor is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The terminal shows the command to run the Python script and its output:

```
PS C:\10k folder\HTML 10k coders> & C:/Users/pulip/
ms/Python/Python313/python.exe "c:/10k folder/HTML
[]"
PS C:\10k folder\HTML 10k coders>
```

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



The image shows a code editor with a dark theme. At the top, there are tabs for 'article.html', 'para.html', 'flex.html', and 'pbs4.py'. The 'pbs4.py' tab is active, showing a Python script with the following code:

```
71 # print(a)
72
73 a=[5,6,7,'hi',8,'to',9]
74
75 print(a[2:5])
76
77
```

Below the code editor, there is a panel with three tabs: 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is active, showing the output of the script and the command used to run it:

```
[5, 6, 7, 'hi', 8, 'to', 9]
PS C:\10k folder\HTML 10k coders> & C:/Users/pulip/AppData/Local/Programs/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/pbs4.py"
[7, 'hi', 8]
PS C:\10k folder\HTML 10k coders>
```

How can you concatenate two lists in Python?

```
... article.html para.html flex.html pbs4.py
pb4.py > ...
78
79 a=[6,5,4,'hi']
80 b=[2,3,4,'to']
81 print(a+b)
82

PROBLEMS OUTPUT TERMINAL ... Python + v
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k
[6, 5, 4, 'hi', 2, 3, 4, 'to']
PS C:\10k folder\HTML 10k coders>
```

How can you copy a list into another list?

```
pbs4.py > ...
82
83
84
85 a=[1,4,5,6]
86 b=a.copy()      #copyg 1 list to another
87 print(b)        #list
88
89
90
91 a=[1,2,34]
92 b=a              #copyg list
93 print(b)
```

PROBLEMS OUTPUT TERMINAL ... Python + -

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k code
[1, 4, 5, 6]
PS C:\10k folder\HTML 10k coders> & C:/Users/pulip/AppData/
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k code
[1, 2, 34]
PS C:\10k folder\HTML 10k coders> 
```

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

```
94  
95  
96  
97 a=[2,4,4,5,6,6,6,8,7,44]  
98 t=a.count(4)  
99 print(t)  
100  
101
```

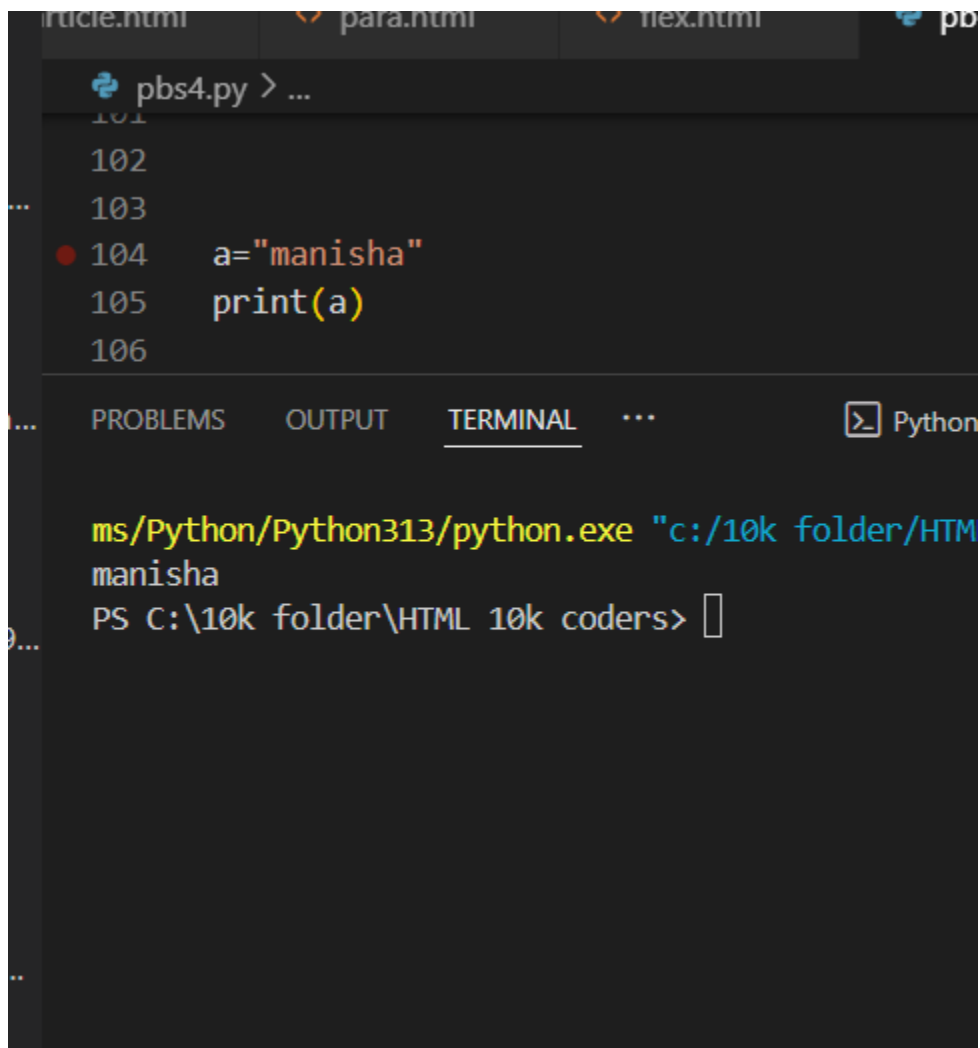
PROBLEMS OUTPUT TERMINAL ... Python + v

```
2  
PS C:\10k folder\HTML 10k coders> 
```

How can you check if a list is empty?

String Questions:

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



The image shows a code editor window with a file named `pbs4.py` open. The code in the editor is as follows:

```
101  
102  
... 103  
● 104 a="manisha"  
105 print(a)  
106
```

Below the code editor, the **TERMINAL** tab is active. It shows the command to run the script and its output:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/pbs4.py"  
manisha  
PS C:\10k folder\HTML 10k coders>
```

How do you convert a string to uppercase in Python?

```
pbs4.py > ...
103
104     a="manisha"
105     t=a.upper()
106     print(t)
107

PROBLEMS    OUTPUT    TERMINAL    ...
ms/Python/Python313/python.exe "c:/10k folder/t
MANISHA
PS C:\10k folder\HTML 10k coders> |
```

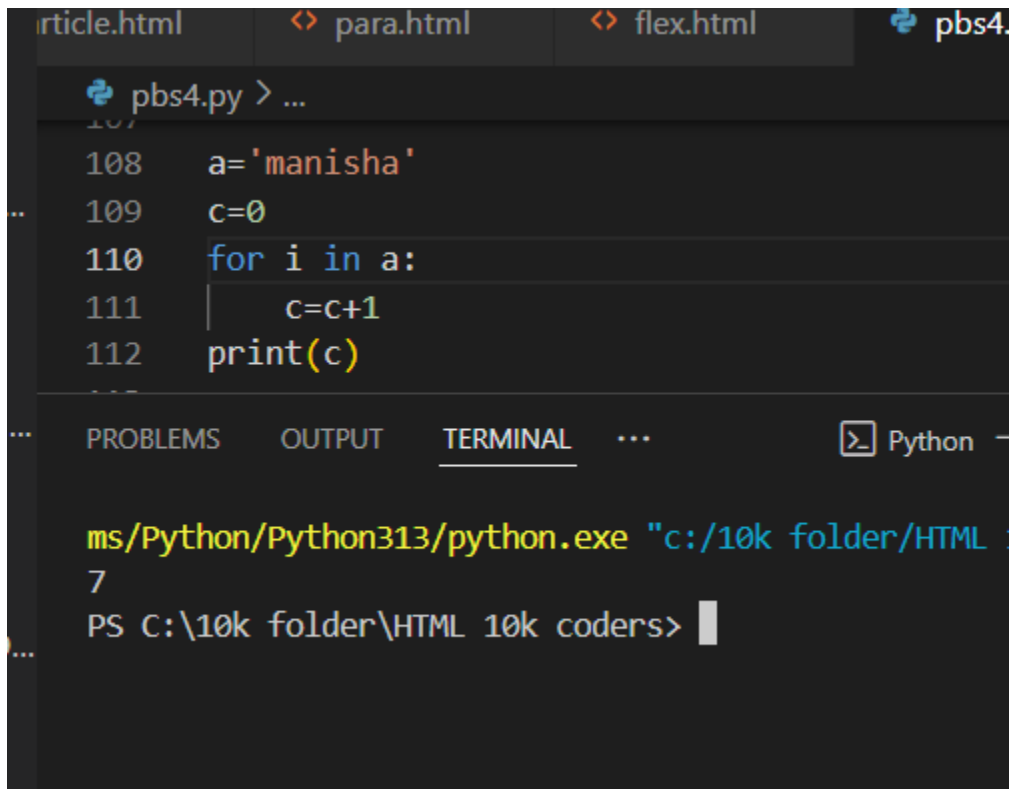
Write a code to check if a string contains a specific substring.

```
130
131
132
133     a='manisha'
134     b='man'
135     if b in a:
136         print('yes')
137     else:
138         print("false")

PROBLEMS    OUTPUT    TERMINAL    ...
ms/Python/Python313/python.exe "c:/10k fold
yes
PS C:\10k folder\HTML 10k coders> |
```



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



The screenshot shows a code editor with a file named `pbs4.py` open. The code in the editor is as follows:

```
108 a='manisha'  
109 c=0  
110 for i in a:  
111     c=c+1  
112 print(c)
```

Below the code editor, the `TERMINAL` tab is active. It shows the command to run the Python script:

```
ms/Python/Python313/python.exe "c:/10k folder/HTML 10k coders/pbs4.py"  
7  
PS C:\10k folder\HTML 10k coders>
```

The output of the program is `7`, which is the length of the string `'manisha'`.

Write a Python program to reverse a string.

The image shows a code editor window with a dark theme. The top part displays a file explorer on the left with a list of files including 'article.html', 'para.html', 'flex.html', and 'pbs4.py'. The main editor area shows the contents of 'pbs4.py' with line numbers 113 to 123. The code includes a loop to build a string 'b' from 'a' and a slice operation on 'a'. Below the editor is a terminal window with tabs for 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The terminal shows the output of the script, which is 'krishna', followed by the command prompt and the execution command.

```
113
114     a='manisha'
115     b=''
116     for i in a:
117         b=i+b
118     print(b)
119
120
121     a='krishna'[::-1]
122     print(a)
123
```

krishna  
PS C:\10k folder\HTML 10k coders> & C:/Users/pulip/AppData/ms/Python/Python313/python.exe "c:/10k folder/HTML 10k code  
ahsinam  
anhsirk  
PS C:\10k folder\HTML 10k coders>