

```

#find the memory size of some lists(by
__sizeof__(),inbuild function)
# Define an empty list in the program
emptyList = [] #value=40
# Printing size of empty list
print("Internal memory size of an empty list: ",
emptyList.__sizeof__())
# Define some lists with elements
a = [24] #val=40+8*1
b = [24, 26, 31, 6] #val=40+8*4
c = [1, 2, 6, 5, 415, 9, 23, 29]
d = [4, 5, 12, 3, 2, 9, 20, 40, 32, 64]
# Printing internal memory size of lists
print("Memory size of first list: ", a.__sizeof__())
print("Memory size of second list: ", b.__sizeof__())
print("Memory size of third list: ", c.__sizeof__())
print("Memory size of fourth list: ", d.__sizeof__())

```

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists files in the 'VS CODE PROGS' directory, with 'memory_size.py' selected. The main editor displays the Python code from the first block. The TERMINAL panel at the bottom shows the command 'python -u "c:\Users\VP\OneDrive\Desktop\vs code progs\tempCodeRunnerFile.py"' and its output:

```

PS C:\Users\VP\OneDrive\Desktop\vs code progs> python -u "c:\Users\VP\OneDrive\Desktop\vs code progs\tempCodeRunnerFile.py"
Internal memory size of an empty list: 40
Memory size of first list: 48
Memory size of second list: 72
Memory size of third list: 104
Memory size of fourth list: 120
PS C:\Users\VP\OneDrive\Desktop\vs code progs>

```

The status bar at the bottom indicates the cursor is at line 15, column 54, with 4 spaces, UTF-8 encoding, CRLF line endings, and Python 3.11.1 64-bit.