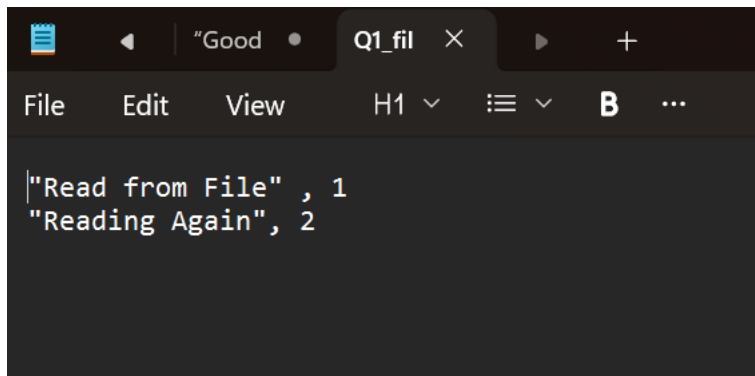


Q.1) Write a code to Read a file and append lines to a list.

File content ->

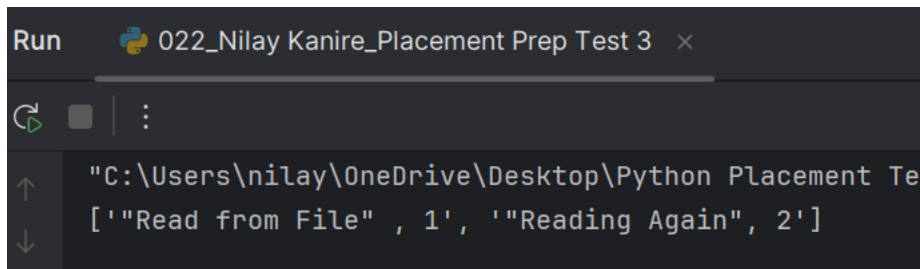
A screenshot of a text editor window with a dark theme. The title bar shows a file named "Q1_fil" and a tab with "Good". The menu bar includes File, Edit, View, H1, and a search icon. The text area contains two lines: "Read from File" , 1 and "Reading Again", 2.

```
"Read from File" , 1
"Reading Again", 2
```

Code

```
path = "D:\\downloads\\Q1_file.txt"
lines_list = []
with open(path, 'r') as file:
    for line in file:
        lines_list.append(line.strip())
print(lines_list)
```

#Output ->

A screenshot of a terminal window with a dark theme. The title bar shows "Run" and a file named "022_Nilay Kanire_Placement Prep Test 3". The terminal shows the output of the code: ["Read from File" , 1', '"Reading Again", 2'].

```
"C:\\Users\\nilay\\OneDrive\\Desktop\\Python Placement Te
['"Read from File" , 1', '"Reading Again", 2']
```

Q.2) Write a code to catch an Exception in python?

```
num = 10
deno = 0

try:
    div = 10/0
except Exception as e:
```

```
print("Exception handled: ", e)
```

```
print("Done")
```

Output ->

```

:
"C:\Users\nilay\OneDrive\Desktop\Python Placer
Handled the exception  division by zero
Done

Process finished with exit code 0
```

Q.3) Write a Python function that accepts a list containing strings and integers.
Merge all string elements using # and add all integer elements.

e.g.

input list is

```
['100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', '500']
```

Output should be:

```
welcome#hi#bye#welldone#
1100
```

Q.4) Write a script to sort a dictionary based on its values and find the sum of middle two values

```
input_dict = {"x": 5, "y": 15, "z": 25}
```

Output:

```
Sorted Dictionary: {'x': 5, 'y': 15, 'z': 25}
```

```
Sum of middle two values: 15 + 5 = 20
```

or

```
input_dict = {"x": 5, "y": 15, "z": 25, "p": 12}
```

Output:

```
Sorted Dictionary: {'x': 5, 'p': 12, 'y': 15, 'z': 25}
```

```
Sum of middle two values: 12 + 15 = 27
```

```
input_dict1 = {"x": 5, "y": 15, "z": 25}
```

```
sorted_dict1 = dict(sorted(input_dict1.items(), key=lambda item: item[1]))
```

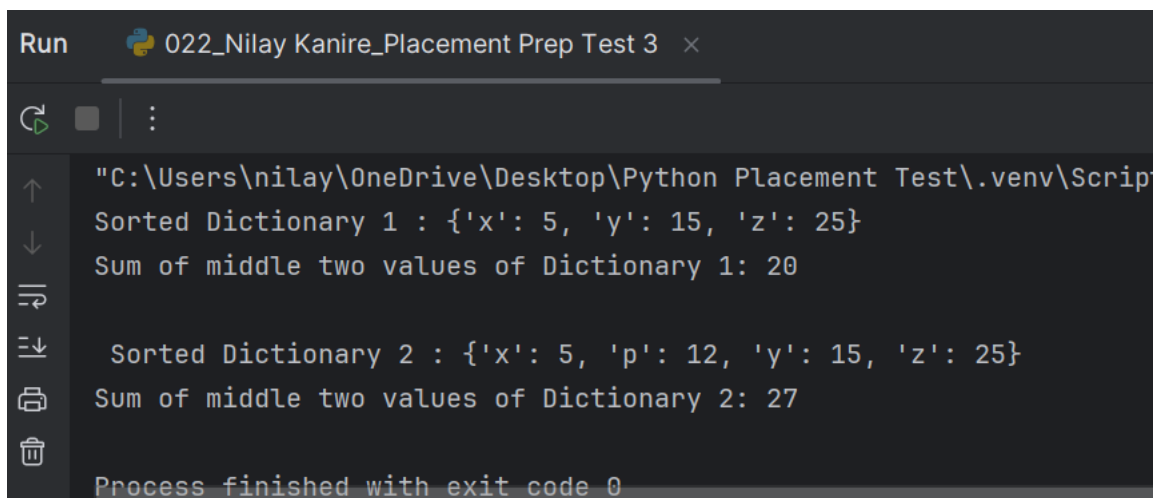
```
input_dict2 = {"x": 5, "y": 15, "z": 25, "p": 12}
```

```
sorted_dict2 = dict(sorted(input_dict2.items(), key=lambda item: item[1]))
```

```
print("Sorted Dictionary 1 :", sorted_dict1)
values1 = list(sorted_dict1.values())
middle_values = values1[len(values1)//2 - 1 : len(values1)//2 + 1]
print("Sum of middle two values of Dictionary 1:", sum(middle_values))
```

```
print("\n Sorted Dictionary 2 :", sorted_dict2)
values2 = list(sorted_dict2.values())
middle_values = values2[len(values2)//2 - 1 : len(values2)//2 + 1]
print("Sum of middle two values of Dictionary 1:", sum(middle_values))
```

Output ->

A screenshot of a terminal window titled "Run" with a file named "022_Nilay Kanire_Placement Prep Test 3". The terminal shows the output of a Python script. It first displays the path to the script file, then prints "Sorted Dictionary 1 : {'x': 5, 'y': 15, 'z': 25}" and "Sum of middle two values of Dictionary 1: 20". After a blank line, it prints "Sorted Dictionary 2 : {'x': 5, 'p': 12, 'y': 15, 'z': 25}" and "Sum of middle two values of Dictionary 2: 27". At the bottom, it states "Process finished with exit code 0".

```
Run 022_Nilay Kanire_Placement Prep Test 3 ×
"C:\Users\nilay\OneDrive\Desktop\Python Placement Test\.venv\Script
Sorted Dictionary 1 : {'x': 5, 'y': 15, 'z': 25}
Sum of middle two values of Dictionary 1: 20

Sorted Dictionary 2 : {'x': 5, 'p': 12, 'y': 15, 'z': 25}
Sum of middle two values of Dictionary 2: 27

Process finished with exit code 0
```