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

list = []

with open("junk.txt", "r") as file:
    for line in file:
        list.append("my name is jack")
    print(list)
```

```
C:\Users\Admin\AppData\Local\Programs\Python\Python313\python.exe "D:\Python\CCEE\logic test\logic test.py"
['my name is jack']

Process finished with exit code 0
```

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

try:
    result = 10 / 0
    print("result = ", result)
except ZeroDivisionError as e:
    print("you cannot divide by zero ",e)
except Exception as e:
    print("exception occured ", e)
finally:
    print("finally excecuted")
```

```
C:\Users\Admin\AppData\Local\Programs\Python\Python313\python.exe "D:\Python\CCEE\logic test\logic test.py"
you cannot divide by zero  division by zero
finally excecuted

Process finished with exit code 0
```

```python
"""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"""


def process_mixed_list(input_list):
    merged_list = []
def process_mixed_list(input_list):
    merged_strings = []
    integer_sum = 0

    for item in input_list:
        if isinstance(item, str):
            merged_strings.append(item)
        elif isinstance(item, int):
            integer_sum += item

        elif isinstance(item, str) and item.isdigit():
            integer_sum += int(item)

    result_string = '#'.join(merged_strings)

    print(f"{result_string}#")
    print(f"{integer_sum}")

input_list = ['100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', '500']
process_mixed_list(input_list)
```

```
C:\Users\Admin\AppData\Local\Programs\Python\Python313\python.exe "D:\Python\CCEE\logic test\logic test.py"
100#welcome#hi#200#300#bye#welldone#500#
0

Process finished with exit code 0
```

```python
"""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"""

d = {"x": 5, "y": 15, "z": 25, "p": 12}
sorted_items = dict(sorted(d.items(), key=lambda x: x[1]))
print("Sorted Dictionary:", sorted_items)
values = list(sorted_items.values())
n = len(values)
mid1 = values[(n // 2) - 1]
mid2 = values[n // 2]
print("Sum of middle two values:", mid1 + mid2)
```

```
C:\Users\Admin\AppData\Local\Programs\Python\Python313\python.exe "D:\Python\CCEE\logic test\logic test.py"
Sorted Dictionary: {'x': 5, 'p': 12, 'y': 15, 'z': 25}
Sum of middle two values: 27

Process finished with exit code 0
```