

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

Code:

```
lines_list = []
with open("Demo.txt","r") as file:
    for line in file:
        lines_list.append(line.strip("Abstract class,Int,Float,Double"))
print(lines_list)
```

Output:

```
C:\Users\praja\AppData\Local\Programs\Python\Python313\python.exe D:\Python_temp\MyPac
['Late binding\n', 'Late binding = runtime decision\n', 'hieved using method overridin
Process finished with exit code 0
```

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

Code:

```
try:
    a = 10/0
except ZeroDivisionError:
    print("you can not divide a number by 0.")
print("Done")
```

Output:

```
C:\Users\praja\AppData\Local\Programs\Python\Python313\python.exe D:\Python_temp\MyPac
you can not divide a number by 0.
Done
```

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

Code:

```
def merge_and_add(lst):
    word_str = ""
    total = 0

    for item in lst:
        if item.isdigit():
            total += int(item)
        else:
            word_str += item + "#"

    return word_str, total
```

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

```
s, n = merge_and_add(lst)
```

```
print(s)
print(n)
```

Output:

```
C:\Users\praja\AppData\Local\Programs\Python\Python313\python.exe D:\Python_temp
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

Code:

```
import operator
```

```
input_dict = {"x":5, "y":15, "z":25}
sorted_input_dict = sorted(input_dict.items(),
```

```
key=operator.itemgetter(1)
print(sorted_input_dict)
sum=input_dict["x"]+input_dict["y"]
print("Sum of middle two values",sum)
```

Output:

```
C:\Users\praja\AppData\Local\Programs\Python\Python313\python.exe D:\Python_templ
[('x', 5), ('y', 15), ('z', 25)]
Sum of middle two values 20
```