Q1. Write a code to Read a file and append lines to a list.

```
lines_list= []
with open(r'C:\Users\Sagar Nikam\Desktop\Practice\Python
Module\Test\day3.py','r') as f:
    for line in f:
        lines_list.append(line.strip())
print(lines_list)
```

Output:

```
"C:\Users\Sagar Nikam\AppData\Local\Microsoft\WindowsApps\python3.12.exe" "C:\Users\Sagar Nikam\Desktop\Practice\Python Module\Test\day3.py"
['lines_list= []', "with open(r'C:\\Users\\Sagar Nikam\\Desktop\\Practice\\Python Module\\Test\\day3.py','r') as f:", 'for line in f:', 'lines_list.append(line.strip())', 'prir

Process finished with exit code 0
```

Q2. Write a code to catch an Exception in python?

```
try:
    num1=int(input("Enter num1: "))
    num2=int(input("Enter num2: "))
    result = num1/num2
    print('Division: ',result)
except ZeroDivisionError:
    print("Can't be divide by zero")
except ValueError:
    print("Invalid input")
```

Output:

```
"C:\Users\Sagar Nikam\AppData\Local\Microsoft\WindowsApps\python3.12.exe" "C:\Users\Sa
Enter num1: 5
Enter num2: 0
Can't be divide by zero
```

Q3. 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

```
input = ['100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', '500']
str1 = []
sum = 0

for i in input:
    if i.isdigit():
        sum = sum+int(i)
    else:
        str1.append(i)
merged_str= '#'.join(str1)
print(merged_str,"#",sum)
```

Output:

```
"C:\Users\Sagar Nikam\AppData\Local\Microsoft\WindowsApps\python3.12.exe" "C:\
welcome#hi#bye#welldone # 1100

Process finished with exit code 0
```

Q4.

```
input_dict = {"x": 5, "y": 15, "z": 25,"p":12}
sorted_dict = dict(sorted(input_dict.items(), key=lambda item: item[1]))
print("Sorted Dictionary:", sorted_dict)
values = list(sorted_dict.values())
n = len(values)
ls_dict = list(sorted_dict.values())
print(ls_dict[n//2]+ls_dict[n//2-1])
```

Output:

```
"C:\Users\Sagar Nikam\AppData\Local\Microsoft\WindowsApps\pythc
Sorted Dictionary: {'x': 5, 'p': 12, 'y': 15, 'z': 25}
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Process finished with exit code 0
```