Q1.

```
file_lines = []

with open("myfile.txt", "r") as file:
    for i in file:
        file_lines.append(i.strip())

print(file_lines)
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
['hii', 'how are you', 'happy dusshera', 'python', 'kvn', 'sql', 'advanced python']

Process finished with exit code 0
```

Q2.

```
def exception_fun():
    try:
        var = 100/0
    except Exception as e:
        print("Some error: ",e)

exception_fun()
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
Some error:  division by zero

Process finished with exit code 0
```

Q3.

```
mylist = ['100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', '500']
def myfun(data):
    s_string = []
    sum = 0

    for item in data:
        if isinstance(item, int):
            sum += item
        elif isinstance(item, str):
            if item.isdigit():
                sum += int(item)
            else:
                s_string.append(item)


    merged_string = "#".join(s_string) + "#"

    return merged_string, sum

string_output, sum_output = myfun(mylist)

print(string_output)
print(sum_output)
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
welcome#hi#bye#welldone#
1100

Process finished with exit code 0
```

Q4.

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

sorted_item = sorted(input_dict.items(), key=lambda x: x[1])
sorted_dict = dict(sorted_item)

print("Sorted Dictionary is:", sorted_dict)

values = [j for i,j in sorted_item]
n = len(values)

if n % 2 == 0:
   mid1 = values[n//2 - 1]
   mid2 = values[n//2]
else:
   mid1 = values[n//2 - 1]
   mid2 = values[n//2]

sum = mid1 + mid2

print("Sum of middle two values:" ,mid1,"+" , mid2 ,"=" ,sum)
```

Output:

```
"D:\CDAC\Python programs\venv\Scripts\python.exe" "D:\CDAC\Python programs\demo.py"
Sorted Dictionary is: {'x': 5, 'p': 12, 'y': 15, 'z': 25}
Sum of middle two values: 12 + 15 = 27

Process finished with exit code 0
```