

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

```
list1 = []
```

```
with open("D:\CDAC\PROJECT\HNM Project\Data.txt", "r") as file:  
    for line in file:  
        list1.append(line.strip())
```

```
print(list1)
```

op→

```
"D:\CDAC\Python By Nitin Sir\PythonFiles\.venv\Scripts\python.exe" "D:\CDAC\Python By Nitin  
D:\CDAC\Python By Nitin Sir\PythonFiles\Python Preparation\Python_test3.py:4: SyntaxWarning  
    with open("D:\CDAC\PROJECT\HNM Project\Data.txt", "r") as file:  
['Hi hello How are you!', 'I am fine']  
  
Process finished with exit code 0  
|
```

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

```
try:
```

```
    n1=int(input("Enter the number1: "))  
    n2=int(input("Enter the number2: "))  
    sum=n1+n2  
    print(sum)
```

```
except Exception as e:
```

```
    print("Please enter a Integer ")
```

op->

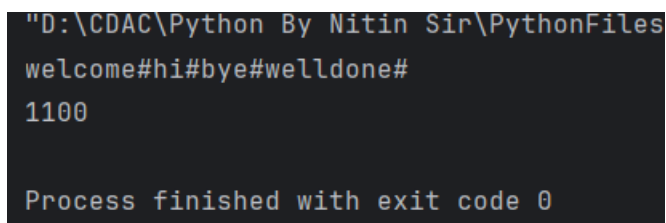
```
"D:\CDAC\Python By Nitin Sir\PythonFiles\.venv\  
Enter the number1: 5  
Enter the number2: h  
Please enter a Integer  
  
Process finished with exit code 0
```

**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**

**Op->**

```
list1=['100', 'welcome', 'hi', '200', '300', 'bye', 'welldone', '500']
sum=0
string=""
for i in list1:
    if i.isdigit():
        sum=sum+int(i)
    else:
        string=string+i+'#'
print(string)
print(sum)
```



```
"D:\CDAC\Python By Nitin Sir\PythonFiles
welcome#hi#bye#welldone#
1100
Process finished with exit code 0
```

**Q4)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**

```
def dictsort(d):
    n=len(d)
    values=sorted(d.values())
    if n==0:
        print("Dictionary is empty")
    elif n==1:
        mid=values[0]+values[0]
        print("sum is: ",mid)
    elif n%2==0:
        mid=values[(n//2)+1]+values[n//2]
```

```
    print("sum is: ", mid)
else:
    mid=values[(n//2)-1]+values[n//2]
    print("sum is: ", mid)
```

```
print("Sorted Dictionary is : ",dict(sorted(d.items(),key=lambda item: item[1])))
```

```
dictsort(input_dict)
```

op→

```
Input Dict is:  {'x': 5, 'y': 15, 'z': 25, 'p': 10}
sum is:  40
Sorted Dictionary is :  {'x': 5, 'p': 10, 'y': 15, 'z': 25}

Process finished with exit code 0
```