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038

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

```
l= []

with open("sahil.txt", "r") as f:
   for line in f:
      l.append(line.strip())

print(l)
```

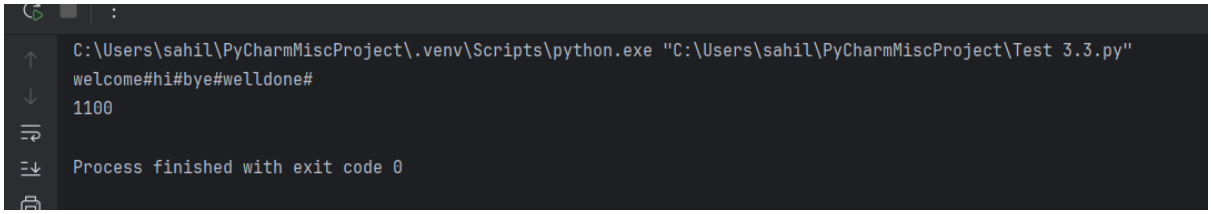
#Q.2) Write a code to catch an Exception in python?

```
a=int(input("Enter a dividend: "))
b=int(input("Enter a divisor: "))

try:
   c=a/b
   print(c)
except ZeroDivisionError:
   print("ZeroDivisionError: can't divide by zero")
```

'''

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 list_obj (l1):
    string_result = ""
    int_sum = 0

    for item in l1:
        if item.isdigit():
            int_sum += int(item)
        else:
            string_result += item + "#"

    return string_result, int_sum


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

s, total = list_obj (input_list)

print(s)
print(total)
```




```
'''
```

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,"p":12}
Output:
Sorted Dictionary: {'x': 5, 'p': 12,'y': 15, 'z': 25}
Sum of middle two values: 12 + 15 = 27

```
'''

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())

mid_sum = values[len(values)//2 - 1] + values[len(values)//2]

print("Sum of middle two values:",
    values[len(values)//2 - 1], "+", values[len(values)//2], "=", mid_sum)
```