

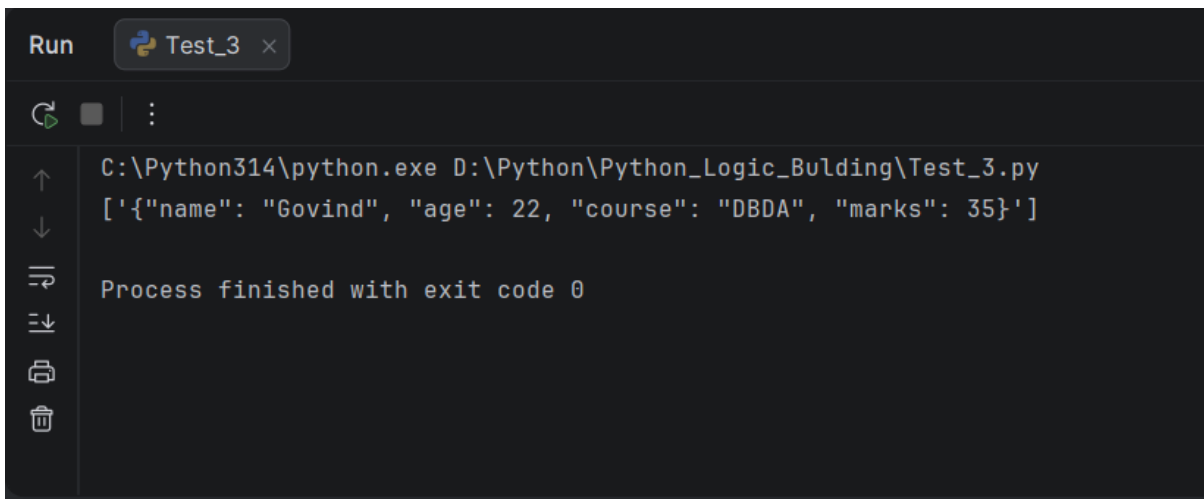
PYTHON

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

Code:

```
list = []  
  
with open('student.json', 'r') as file:  
    for lines in file:  
        list.append(lines.strip())  
  
print(list)
```

Output:



```
Run Test_3 x  
C:\Python314\python.exe D:\Python\Python_Logic_Bulding\Test_3.py  
['{"name": "Govind", "age": 22, "course": "DBDA", "marks": 35}']  
Process finished with exit code 0
```

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

Code:

```
try:  
    a=int(input("Enter a number: "))  
    b=int(input("Enter another number: "))  
    c=a/b  
    print(c)
```

```
except ZeroDivisionError:
```

```
    print("Number can not be divided by zero")
```

Output:



```
Run Test_3 x
C:\Python314\python.exe D:\Python\Python_Logic_Bulding\Test_3.py
Enter a number: 5
Enter another number: 0
Number can not be divided by zero
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 '''
```

Code:

```
def fun(mylist):
```

```
    string_part = ""
```

```
    sum_part = 0
```

```
    for item in mylist:
```

```
        if item.isdigit():
```

```
            sum_part += int(item)
```

else:

string_part += item + "#"

return string_part, sum_part

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

result = fun(Mylist)

print(result[0])

print(result[1])

Output:



```
Run Test_3 x
C:\Python314\python.exe D:\Python\Python_Logic_Bulding\Test_3.py
welcome#hi#bye#welldone#
1100
Process finished with exit code 0
```

'''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}

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: $12 + 15 = 27$ '''

Code:

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

```
# sort dictionary by values
```

```
sd = dict(sorted(d.items(), key=lambda x: x[1]))
```

```
print("Sorted Dictionary:", sd)
```

```
# get values and add middle two
```

```
v = list(sd.values())
```

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

```
print("Sum of middle two values:", mid_sum)
```

Output:

Run

Test_3 x



```
C:\Python314\python.exe D:\Python\Python_Logic_Bulding\Test_3.py
```

```
Sorted Dictionary: {'x': 5, 'p': 12, 'y': 15, 'z': 25}
```

```
Sum of middle two values: 27
```

```
Process finished with exit code 0
```