

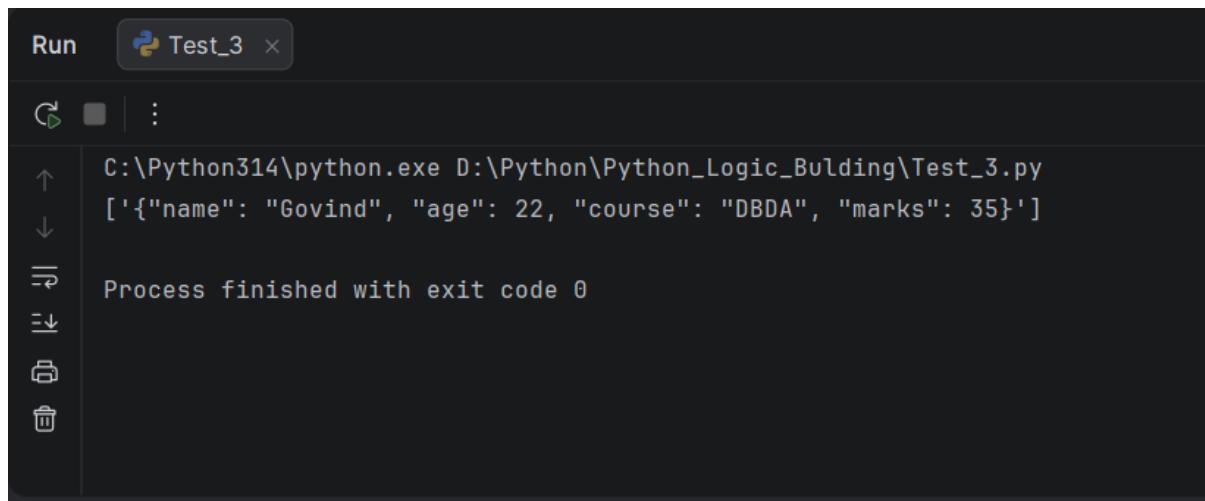
## PYTHON

""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 ×  
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
```

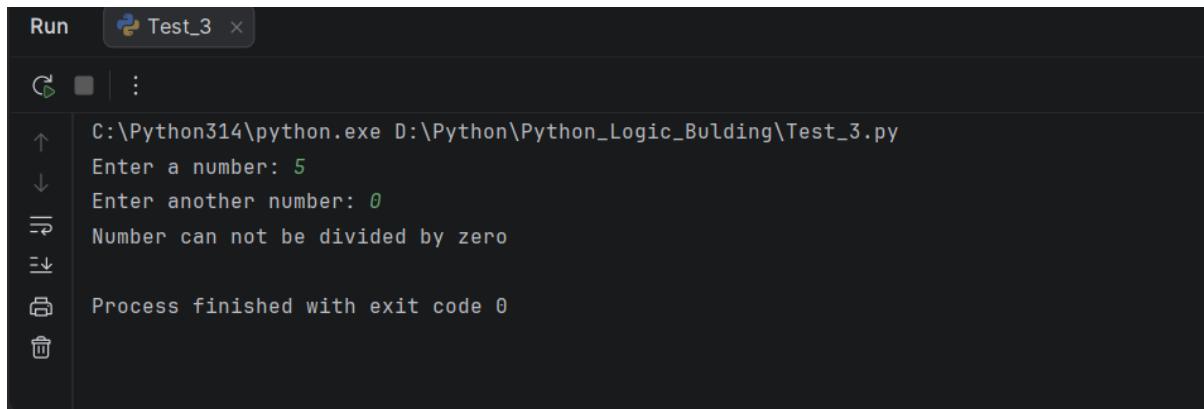
""Q.2) Write a code to catch an Exception in python?""

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  
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 ×
C:\Python314\python.exe D:\Python\Python_Logic_Building\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:

```
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
```