Riphah International University

Artificial Intelligence (AI)

Lab 0

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Section: BSCS-5A

Submitted To: Mahjabeen

Riphah School of Computing & Innovation Faculty of Computing Riphah International University, Lahore 2023

Lab

```
#1
result=2+3-5*7/3
print(str(result)+" Arithmetic operations")
```
-6.666666666666666 Arithmetic operations

```
#2
test="abc"
test1="abc"
length=len(test)*'abc'+'def'
#print(length+"\n")
#print(test[0])
#print(test==test1)
#print(test[2:3])
#print("b" in test)
```

```
True
```

```
#3
Name="Muhammad_Qasim"
Sap=37137
inp=input("Enter Dept.\n")
print(Name + " " + str(Sap) + " " + inp)
Enter Dept.
CS
Muhammad_Qasim 37137 CS
```

```
#4
value=3.534
new_val=round(value)
print(new_val)
4
```

```
#5
a = 5
b = 2
result_1 = (a ** 2) + (b * 3) - (4 / 2)

name = "Qasim"
age = 21
greet_message = "Hello, " + name + "! You are " + str(age) + " years old."

import math
radius = 4
```

```python
area_of_circle = 3.14 * (radius ** 2)


length = 6
width = 8
perimeter_of_rectangle = 2 * (length + width)


def square(num):
    return num ** 2


number = 7
result_5 = square(number) + square(number + 1)

# Print results
print("Result 1:", result_1)
print("Greet Message:", greet_message)
print("Area of Circle:", area_of_circle)
print("Perimeter of Rectangle:", perimeter_of_rectangle)
print("Result 5:", result_5)
```

```
Result 1: 29.0
Greet Message: Hello, Qasim! You are 21 years old.
Area of Circle: 50.24
Perimeter of Rectangle: 28
Result 5: 113
```

```python
#6
result=90+90
print(str(result)+" Arithmetic operation")
```
180 Arithmetic operations

```python
#7
Name="Qasim"
Sap=37137
inp=input("Enter Dept.\n")
print(Name + " " + str(Sap) + " " + inp)
```
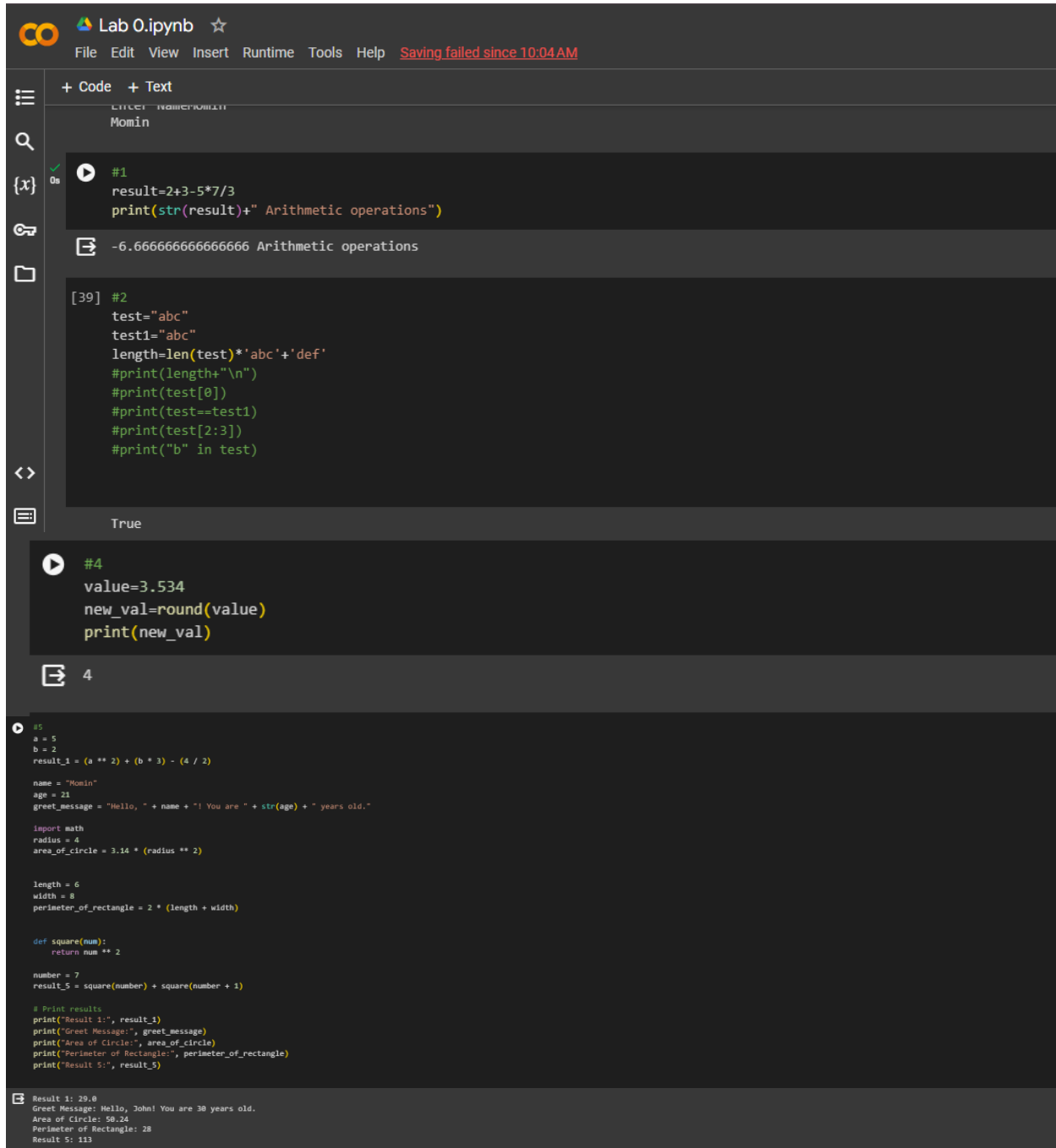Momin 38589 CS

```python
#8
result=90+90
print(result+" Arithmetic operation") #error
bool check #error
if result!=180:
  check=False
else:
```

```
    True
```

```
File "<ipython-input-57-c81b3e8f2e71>", line 4 bool check #error ^ SyntaxError:
invalid syntax
```

+ Code   + Text

```
Enter NameMomin
Momin
```

```
#1
result=2+3-5*7/3
print(str(result)+" Arithmetic operations")
```

```
-6.666666666666666 Arithmetic operations
```

[39]
```
#2
test="abc"
test1="abc"
length=len(test)*'abc'+'def'
#print(length+"\n")
#print(test[0])
#print(test==test1)
#print(test[2:3])
#print("b" in test)
```

```
True
```

```
#4
value=3.534
new_val=round(value)
print(new_val)
```

```
4
```

```
#5
a = 5
b = 2
result_1 = (a ** 2) + (b * 3) - (4 / 2)

name = "Momin"
age = 21
greet_message = "Hello, " + name + "! You are " + str(age) + " years old."

import math
radius = 4
area_of_circle = 3.14 * (radius ** 2)


length = 6
width = 8
perimeter_of_rectangle = 2 * (length + width)


def square(num):
    return num ** 2

number = 7
result_5 = square(number) + square(number + 1)

# Print results
print("Result 1:", result_1)
print("Greet Message:", greet_message)
print("Area of Circle:", area_of_circle)
print("Perimeter of Rectangle:", perimeter_of_rectangle)
print("Result 5:", result_5)
```

```
Result 1: 29.0
Greet Message: Hello, John! You are 30 years old.
Area of Circle: 50.24
Perimeter of Rectangle: 28
Result 5: 113
```

```
[ ] #6
    result=90+90
    print(str(result)+" Arithmetic operation")

    180 Arithmetic operations

 ⊙  #8
    result=90+90
    print(result+" Arithmetic operation") #error
    bool check #error
    if result!=180:
      check=False
    else:
      True

 ⊟    File "<ipython-input-57-c81b3e8f2e71>", line 4
        bool check #error
                 ^
    SyntaxError: invalid syntax
```

Next steps: [Fix error]