

IDLE Shell 3.13.5 - C:/Users/Faisal/Desktop/PRACTICAL.py (3.13.5)*

```
File Edit Shell Debug Options Window Help
Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>> Enter help below or click "Help" above for more information.mass=int(input("enter mass of an object: "))
.. velocity=int(input("enter velocity in meter per second: "))
.. a=mass*velocity
.. momentum=int(input(f"momentum of an object: (a)"))
.. print("momentum")
SyntaxError: invalid syntax
>>>
=====
===== RESTART: Shell =====
>>>
=====
===== RESTART: C:/Users/Faisal/Desktop/PRACTICAL.py =====
enter mass of an object: 2
enter velocity in meter per second: 5
momentum of an object: 10
```

The screenshot shows two windows from the Python IDLE Shell. The left window is the Shell interface, and the right window is the Script Editor.

Shell Window (Left):

- File Edit Shell Debug Options Window Help
- Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit (AMD64)] on win32
- Enter "help" below or click "Help" above for more information.
- >>> ===== RESTART: C:/Users/Faisal/Desktop/PRACTICAL1.py =====
- Enter number: 23
- Square root of given number is 4.795031523312719

Script Editor Window (Right):

```
import math

n = int(input("Enter number: "))
square = n * n

if 0 <= n < 10:
    print(f"Square of given number is {square}")

elif 10 <= n < 100:
    print(f"Square root of given number is {math.sqrt(n)})")

elif 100 <= n < 1000:
    print(f"Cube root of given number is {n ** (1/3)})")

else:
    print("Number out of range")
```

The image shows a screenshot of the Python IDLE environment. On the left, there is an 'Interactive Shell' window titled 'IDLE Shell 3.13.5'. It displays the following text:

```
File Edit Shell Debug Options Window Help
Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit (AMD64)]
on win32
Enter "help" below or click "Help" above for more information.
>>> ===== RESTART: C:/Users/Faisal/Desktop/PRACTICAL1.py =====
enter birth year: 2007
enter monthly salary in rupees: 783425
Annual age of employee 19
annual salary in dollars: 113266.26506024097
```

On the right, there is a 'Script Editor' window titled 'PRACTICAL1.py - C:/Users/Faisal/Desktop/PRACTICAL1.py (3.13.5)'. It contains the following Python code:

```
from datetime import date
def calculate_age(birth_year):
    current_year= date.today().year
    return current_year- birth_year
def salary_in_dollars(monthly_salary):
    annual_salary=monthly_salary*12
    dollars=annual_salary/83
    return dollars
birth_year=int(input("enter birth year: "))
monthly_salary= float(input("enter monthly salary in rupees: "))
age= calculate_age(birth_year)
annual_salary_dollars=salary_in_dollars(monthly_salary)
print("Annual age of employee", age)
print("annual salary in dollars: ", annual_salary_dollars)
```

```
IDLE Shell 3.13.5
File Edit Shell Debug Options Window Help
Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) |MSC v.1943 64 bit (AMD64)| on win32
Enter "help" below or click "Help" above for more information.
>>> ===== RESTART: C:/Users/Faisal/Desktop/PRACTICAL.py =====
enter number: 12345
reverse number is None
reverse_number 54321
>>> |
```

```
File Edit Format Run Options Window Help
def reverse_number(n):
    rev=0
    while n>0:
        digit =n%10
        rev=rev*10 +digit
        n=n//10
n=int(input("enter number: "))
result=reverse_number(n)
print(f"reverse number is {result}")
# method 2

reverse_number=int(str(n)[::-1])
print("reverse_number", reverse_number)
```