

momentum.py - C:/Users/Apeksha/momentum.py (3.13.9)

```
File Edit Format Run Options Window Help
mass = float(input("Enter mass in kilograms: "))
velocity = float(input("Enter velocity in meters per second: "))

momentum = mass * velocity

print(f"The momentum of the object is: {momentum}")
```

IDLE Shell 3.13.9

```
File Edit Shell Debug Options Window Help
Python 3.13.9 (tags/v3.13.9:81083fa5, Oct 14 2025, 14:09:13) [MSC v.1944 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>> mass = float(input("Enter mass in kilograms: "))
... velocity = float(input("Enter velocity in meters per second: "))
...
... momentum = mass * velocity
...
... print(f"The momentum of the object is: {momentum}")
SyntaxError: multiple statements found while compiling a single statement
>>>
===== RESTART: C:/Users/Apeksha/momentum.py =====
Enter mass in kilograms: 8
Enter velocity in meters per second: 7
The momentum of the object is: 56.0
>>>
```

math.py - C:/Users/Apeksha/math.py (3.13.9)

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```
import math

n = int(input("Enter a number: "))

if 0 <= n < 10:
    print(f"Square of {n}: {n**2}")

elif 10 < n < 100:
    print(f"Square root of {n}: {math.sqrt(n):.2f}")

elif 100 < n < 1000:
    print(f"Cube root of {n}: {(n**(1/3)):.2f}")

else:
    print("Please enter a number between 0 and 999.")
```

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```
Python 3.13.9 (tags/v3.13.9:818:AMD64) [on win32]
Enter "help" below or click "Help" in the menu bar.

>>> ===== RESTART =====
Enter a number: 800
Cube root of 800: 9.28
>>>
```

dollar.py - C:/Users/Apeksha/dollar.py (3.13.9)

```
File Edit Format Run Options Window Help
from datetime import datetime

def calculate_age(birthdate):
    today = datetime.now()
    birthdate = datetime.strptime(birthdate, "%Y-%m-%d")
    return today.year - birthdate.year - ((today.month, today.day) < (birthdate.month, birthdate.day))

def salary_in_dollars(salary_in_rupees, conversion_rate=82.5):
    return salary_in_rupees / conversion_rate

birthdate = input("Enter birthdate (YYYY-MM-DD): ")
salary = float(input("Enter salary in rupees: "))

age = calculate_age(birthdate)
salary_usd = salary_in_dollars(salary)

print(f"Age: {age} years")
print(f"Salary in USD: ${salary_usd:.2f}")
```

```
===== RESTART: C:/Users/Apeksha/dollar.py =====
Enter birthdate (YYYY-MM-DD): 2007-07-10
Enter salary in rupees: 10000000
Age: 18 years
Salary in USD: $121212.12
```

reverse.py - C:/Users/Apeksha/reverse.py (3.13.9)

```
File Edit Format Run Options Window Help
number = int(input("Enter a number: "))

reverse_number = int(str(number)[::-1])

print(f"Reversed number: {reverse_number}")
```

IDLE Shell 3.13.9

File Edit Shell Debug Options Window Help

```
Python 3.13.9 (tags/v3.13.9:8183fa5, (AMD64)) on win32
Enter "help" below or click "Help" above for help.

>>> ===== RESTART: C:/Users/Asus/PycharmProjects/untitled/main.py =====
Enter a number: 80
Reversed number: 8
>>>
```