

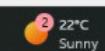
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1. Calculate Momentum

```
m = float(input("Enter mass (in kg): "))
v = float(input("Enter velocity (in m/s): "))

c = m * v

print("Momentum (c) =", c, "kg·m/s")
```



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```
Python 3.13.1 (tags/v3.13.1:0671451, Dec 3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
```

>>>

```
== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py ==
```

```
Enter mass (in kg): 23
```

```
Enter velocity (in m/s): 12
```

```
Momentum (c) = 276.0 kg·m/s
```

>>> |



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2. Check number type and print square/cube root

```
import math

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

if 10 <= abs(n) <= 99:
    print("Two-digit number")
    print("Square root =", math.sqrt(abs(n)))
elif 100 <= abs(n) <= 999:
    print("Three-digit number")
    print("Cube root =", abs(n) ** (1/3))
else:
    print("Number is not two-digit or three-digit")
```



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```
Python 3.13.1 (tags/v3.13.1:0671451, Dec 3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
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```
>>>
==== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py ==
Enter mass (in kg): 23
Enter velocity (in m/s): 12
Momentum (c) = 276.0 kg·m/s
```

```
>>>
===== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py =====
Enter a number: 34
Two-digit number
Square root = 5.830951894845301
>>> |
```

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3. Data transformation

```
from datetime import datetime

# Age calculation
birth_year = int(input("Enter your birth year (YYYY): "))
current_year = datetime.now().year
age = current_year - birth_year

print("Your age is:", age)

# Salary conversion
salary_rupees = float(input("Enter salary in Rupees: "))
exchange_rate = 83 # Example rate (1 USD = 83 INR)
salary_dollars = salary_rupees / exchange_rate

print("Salary in Dollars =", round(salary_dollars, 2))
```

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```
Python 3.13.1 (tags/v3.13.1:0671451, Dec 3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
```

>>>

```
== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py ==
Enter mass (in kg): 23
Enter velocity (in m/s): 12
Momentum (c) = 276.0 kg·m/s
```

>>>

```
===== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py =====
Enter a number: 34
Two-digit number
Square root = 5.830951894845301
```

>>>

```
===== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py =====
Enter your birth year (YYYY): 2006
Your age is: 20
Enter salary in Rupees: 65436
Salary in Dollars = 788.39
```

>>> |

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4. Reverse a number

```
num = int(input("Enter a number: "))

reverse = 0
while num != 0:
    digit = num % 10
    reverse = reverse * 10 + digit
    num = num // 10

print("Reversed number =", reverse)
```



Ln: 12 Col: 0
11:20
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```
Python 3.13.1 (tags/v3.13.1:0671451, Dec 3 2024, 19:06:28) [MSC v.1942 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
```

>>>

```
== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py ==
```

```
Enter mass (in kg): 23
```

```
Enter velocity (in m/s): 12
```

```
Momentum (c) = 276.0 kg·m/s
```

>>>

```
===== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py =====
```

```
Enter a number: 34
```

```
Two-digit number
```

```
Square root = 5.830951894845301
```

>>>

```
===== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py =====
```

```
Enter your birth year (YYYY): 2006
```

```
Your age is: 20
```

```
Enter salary in Rupees: 65436
```

```
Salary in Dollars = 788.39
```

>>>

```
===== RESTART: C:/Users/Dell/AppData/Local/Programs/Python/Python313/aditya1.py =====
```

```
Enter a number: 23
```

```
Reversed number = 32
```

>>>