In [3]:
```
celsius = float(input("Enter temperature in Celsius:"))
fahrenheit = (celsius * 9/5) +32
print(f"{celsius}  = {fahrenheit} F")
```

```
23.0  = 73.4 F
```

25. **Question:** How do you handle incorrect inputs when you expect an integer using `input()`?

In [9]:
```
try:
    num = int(input("Enter a number: "))
except ValueError:
    print("Invalid input! Please enter a valid integer.")
```

## 26. **Question:** Write a program that accepts a string and counts the occurrence of a particular character.

In [22]:
```
text = input("Enter a string")
char = input("Enter a character to count")
print(f"Ocurrence of{char}:{text.count(char)}")
```

```
Ocurrence ofa:4
```

In [20]:
```
name = 123
print(f"My name is {name}")
```

```
My name is 123
```

In [16]:
```
name = "Ratna"
print("My name is",name)
```

```
My name is Ratna
```

## 31. **Question:** How would you accept a date input from the user in Python?

In [ ]:
```
from datetime import datetime
date_str = input("Enter a date(YYYY-MM-DD)")
date = datetime.strptime(date_str, "%Y-%m-%d")
print("Entered Date",date)
```

# Library

# └── Package

```
#└── Module
    #└── Functions / Classes
```

Library → Collection of packages/modules

Package → Folder of related modules

Module → Single Python file

In [27]:
```
from datetime import datetime
date_str = input("Enter a date(YYYY-MM-DD)")
date = datetime.strptime(date_str, "%Y-%m-%d") # strptime- string parse time-Conver
print("Entered Date",date)
```

```
Entered Date 2025-12-27 00:00:00
```

## 35. **Question:** How do you validate if an entered input is a valid email address?

In [36]:
```
import re # regular expression ->Used for pattern checking (text validation)
email= input("Enter a email:")
if re.match(r"[^@]+@[^@]+\.[^@]+", email):
    print("valid email")
else:
    print("Invalid email")
```

```
valid email
```

# 38. **Question:** How would you extract numbers from a string entered by the user?

import re text = input("Enter a string: ") numbers = re.findall(r'\d+', text) # /d->0-9,'/d' = '6' print("Extracted numbers:", numbers)

# 40. **Question:** How would you prompt the user for input until they enter a valid number?

## 43. **Question:** Write a program to find the sum of all digits in a string entered by the user.

In [ ]:
```
text = input("Enter a string")
digit_sum = sum(int(digit)for digit in text if digit.isdigit())
print("Sum of digits:",digit_su)
```