

Super-short memory box

- Keywords = special reserved words.
- Identifiers = names (variables, functions, classes).
- Variables = names with values.
- Types = int, float, str, bool.
- `input()` string deta hai; `int()/float()/str()` se type badlo; `print()` se dikhado.

10 tiny code snippets

- Greeting:
 - `name = input("Name? "); print("Hello", name).`
- Sum of two numbers:
 - `a = int(input()); b = int(input()); print(a + b).`
- Join words:
 - `w1 = input(); w2 = input(); print(w1 + " " + w2).`
- Age after 10:
 - `age = int(input()); print(age + 10).`
- Bool demo:
 - `is_cool = True; print(is_cool).`
- Cast demo:
 - `s = "5"; print(int(s) + 2).`
- Float to int:
 - `f = 2.9; print(int(f)).`

20+ beginner mini-project ideas

Har idea me bas variables, input/output, data types, casting, aur thoda logic ka istemal hoga — bilkul starter friendly. Inme se bahut se examples beginners ke project lists me common hote hain, jo practice ke liye perfect hain.

1. Simple Calculator
 - User se 2 numbers aur operation (+, -, *, /) lo; result print karo.
2. Unit Converter Pack
 - a) KM ↔ Mi, b) M ↔ CM (menu-based).
3. Age in Days/Hours
 - Age (years) lo; days = years × 365; hours = days × 24 print karo.
4. Simple Interest
 - P, R, T input lo; $SI = P \times R \times T / 100$ print karo.
5. Percentage & Grade
 - 5 subject marks lo; percent calc karo; grade A/B/C rules se print karo.
6. Even/Odd Checker
 - Number lo; $n \% 2$ se even/odd print karo.
7. Max of Two
 - Do numbers lo; bada kaun hai print karo (if use).
8. Max of Three
 - Teen numbers lo; sabse bada print karo.
9. Simple Login Mock
 - Correct username/password hardcode; input se match karke “Login Success/Fail”.
10. Name Initials
 - Full name lo; split karke initials print karo (A.B.C.).
11. Word Length Counter
 - Ek sentence lo; len(sentence) aur har word ki length print karo.
12. Currency Split

- Amount lo; 2000/500/200/100 notes count nikaalo (integer division/remainder).

13. Time Converter

- Total minutes input lo; hours = m // 60, minutes = m % 60 print karo.

14. Simple Billing

- Item price aur quantity lo; subtotal, tax%, total print karo.

15. Triangle Area (base-height)

- base, height lo; area = $0.5 \times b \times h$ print karo.

16. Rectangle Perimeter/Area

- L, W lo; perimeter = $2(L+W)$; area = $L \times W$ print karo.

17. Circle Calculator

- r lo; area = $3.14159 \times r \times r$; circumference = $2 \times 3.14159 \times r$.

18. BMI Calculator

- weight(kg), height(m) lo; BMI = $w / (h * h)$; category print karo.

19. Mad Libs Story

- Blanks ke liye words input lo; string template me fill karke funny story print.

20. Simple Contact Card

- Name, phone, city input; formatted "contact card" print karo.