

One-Page Guide: **Python Basics You Must Know**

★ **What You'll Learn**

A fast, beginner-friendly overview of the essential Python skills every new coder should understand. Perfect for absolute beginners.

1. How to Run Python Code

You can run Python using:

- **Python.org** (download Python)
- **Replit.com** (run code in your browser)
- **VS Code** (popular editor)

Try this first:

```
print("Welcome to Python!")
```

2. Variables & Data Types

Variables store information.

```
name = "Sam" # text (string) age = 30 # number (integer) height = 5.9 # decimal (float)
is_student = True # boolean
```

3. User Input

Let the user type something:

```
name = input("What is your name? ") print("Hello, " + name)
```

4. If-Statements (Logic)

Python makes decisions using conditions.

```
score = 82 if score >= 70: print("You passed!") else: print("Try again.")
```

5. Loops (Repeat Actions)

For Loop

```
for i in range(3): print("Learning Python!")
```

While Loop

```
count = 1 while count <= 3: print("Looping...") count += 1
```

6. Lists (Store Multiple Items)

```
tools = ["Python", "Git", "VS Code"] print(tools[0]) # Python
```

Add items:

```
tools.append("Linux")
```

7. Functions (Reusable Code)

```
def welcome(name): print("Welcome, " + name) welcome("Sam")
```

 What to Practice Next

- Build a simple calculator
- Create a number-guessing game
- Make a to-do list program
- Practice writing small scripts daily

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