50 basic things you can do with Python

1. Print a message

```
print("Hello, India!")
```

2. Declare a string variable

```
name = "Priya"
print(name)
```

3. Declare an integer variable

```
age = 25
print(age)
```

4. Declare a float variable

```
price = 99.99
print(price)
```

5. Concatenate strings

```
first_name = "Raj"
last_name = "Kumar"
```

```
full_name = first_name + " " + last_name
print(full_name)
```

6. Concatenating strings and integers (with conversion)

```
name = "Anil"
age = 30
print(name + " is " + str(age) + " years old.")
```

7. Using formatted strings

```
name = "Sita"
age = 22
print(f"My name is {name} and I am {age} years old.")
```

8. Simple addition of integers

```
a = 5
b = 10
print(a + b)
```

9. Simple subtraction of integers

```
a = 20
b = 8
print(a - b)
```

10. Multiplying integers

```
a = 4
```

```
b = 7
print(a * b)
```

11. Dividing integers (float result)

```
a = 10
b = 3
print(a / b)
```

12. Dividing integers (integer result using //)

```
a = 10
b = 3
print(a // b)
```

13. Modulus (remainder)

```
a = 10
b = 3
print(a % b)
```

14. Exponentiation (power of integers)

```
a = 2
b = 3
print(a ** b)
```

15. Simple addition of floats

```
x = 5.5
```

```
y = 3.2
print(x + y)
```

16. Subtracting floats

```
x = 10.5
y = 2.25
print(x - y)
```

17. Multiplying floats

```
x = 4.1
y = 2.3
print(x * y)
```

18. Dividing floats

```
x = 9.0
y = 3.0
print(x / y)
```

19. Using float in formatted strings

```
price = 49.99
print(f"The price of the item is Rs.{price}")
```

20. Combining string and float in print statement

```
item = "Shirt"
price = 450.75
```

```
print("The price of the " + item + " is " + str(price))
```

21. Concatenating multiple strings

```
greeting = "Good" + " " + "Morning"
print(greeting)
```

22. Converting float to integer

```
x = 45.8
print(int(x))
```

23. Converting integer to float

```
age = 21
print(float(age))
```

24. Storing the result of an addition

```
a = 15
b = 30
result = a + b
print(result)
```

25. Storing the result of subtraction

```
a = 40
b = 12
result = a - b
print(result)
```

26. Storing the result of multiplication

```
a = 6
b = 9
result = a * b
print(result)
```

27. Storing the result of division

```
a = 20
b = 4
result = a / b
print(result)
```

28. Storing the result of integer division

```
a = 22
b = 5
result = a // b
print(result)
```

29. Converting string to integer

```
number_str = "100"
print(int(number_str))
```

30. Converting string to float

```
number_str = "99.99"
```

```
print(float(number_str))
```

31. Printing multiple variables in one statement

```
name = "Rohan"
age = 19
print("Name:", name, "Age:", age)
```

32. Print formatted string with multiple variables

```
name = "Amit"
salary = 50000.50
print(f"{name}'s salary is Rs.{salary}")
```

33. Multiplying string with integer (repeating string)

```
name = "Amit"
print(name * 3)
```

34. Using a string with a float result

```
total_cost = 150.50
print("The total cost is: Rs." + str(total_cost))
```

35. Store a float result in a variable

```
x = 10.5
y = 4.2
result = x + y
print(result)
```

36. Print a string and integer together using commas

```
age = 30
print("I am", age, "years old.")
```

37. Convert float to string

```
num = 45.78
print(str(num))
```

38. Convert integer to string

```
num = 45
print(str(num))
```

39. Float arithmetic result stored as float

```
a = 1.5
b = 2.0
result = a * b
print(result)
```

40. String with special characters

```
text = "Hello, \"India\"!"
print(text)
```

41. Escape character for a newline in string

```
text = "Hello\nIndia"
print(text)
```

42. Escape character for a tab in string

```
text = "Hello\tIndia"
print(text)
```

43. Storing integer arithmetic result in variable

```
a = 8
b = 3
result = a // b
print(result)
```

44. Printing without newline (using end)

```
print("Hello", end=" ")
print("India")
```

45. Using a float and integer in a calculation

```
price = 100.50
quantity = 3
total = price * quantity
print(total)
```

46. Concatenating string with arithmetic result

```
x = 10
y = 5
print("The result is: " + str(x + y))
```

47. Print integer and float together using commas

```
x = 45
y = 9.5
print("x:", x, "y:", y)
```

48. Add integer and float

```
x = 10
y = 5.5
print(x + y)
```

49. Combining arithmetic and formatted strings

```
x = 10
y = 5
result = x + y
print(f"The sum of {x} and {y} is {result}")
```

50. String slicing (printing part of string)

```
text = "Namaste India"
print(text[0:7])  # Prints 'Namaste'
```
