1. Write a Python program to print “Welcome to Python Programming”.

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

2. Print name, age, and city on separate lines.

```
print("Vamshi")
print("20")
print("Hyderabad")
```

3. Print a simple pattern using .

```
print("*")
print("**")
print("***")
```

4. Fix syntax error in Python code.

```
print("Hello World")
```

5. Demonstrate case sensitivity in Python.

```
a = 10
A = 20
print(a)
print(A)
```

6. Print: Python is easy to learn.

```
print("Python is easy to learn")
```

7. Print multiple values in one print statement.

```
print("Python", "is", "fun")
```

8. Print numbers 1 to 5 in one line.

```
print(1, 2, 3, 4, 5)
```

9. Print full name using two print statements.

```
print("Vamshi")
print("Neelamma")
```

10. Print result of 10 + 20.

```
print(10 + 20)
```

11. Program using single-line comment.

```
# Single line comment
print("Hello")
```

12. Program using multi-line comment.

```
'''
Multi-line comment
'''
print("Hello")
```

13. Program with comments explaining code.

```
# Assign value
x = 5
# Print value
print(x)
```

14. Comment out a line of code.

```
# print("Not executed")
print("Executed")
```

15. Program with comment describing purpose.

```
# Program to print message
print("Hi")
```

16. Declare variable for name and print it.

```
name = "Vamshi"
print(name)
```

17. Store two numbers and print their sum.

```
a = 10
b = 20
print(a + b)
```

18. Swap two numbers.

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

19. Assign same value to multiple variables.

```
a = b = c = 5
print(a, b, c)
```

20. Change variable value and print both.

```
x = 5
print(x)
x = 10
print(x)
```

21. Create int, float, string, boolean variables.

```
a = 10
b = 2.5
c = "Hello"
d = True
```

22. Print type of variables.

```
print(type(a))
```

```
print(type(b))
print(type(c))
print(type(d))
```

23. Store age and height.

```
age = 20
height = 5.8
```

24. Store a sentence and check type.

```
s = "Python is easy"
print(type(s))
```

25. Identify data type of value.

```
x = 7.5
print(type(x))
```

26. Add two integers.

```
print(5 + 10)
```

27. Divide two numbers.

```
print(10 / 2)
```

28. Find remainder.

```
print(10 % 3)
```

29. Convert integer to float.

```
x = 5
print(float(x))
```

***30*. Perform operations add,sub,mul,div**

a = 10

```
b = 5
print(a + b, a - b, a * b, a / b)
```

31. Convert string "100" to integer.

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

32. Convert float to integer.

```
print(int(5.6))
```

33. Convert integer to string and print type.

```
x = 10
print(type(str(x)))
```

34. Add integer and float.

```
print(5 + 2.5)
```

35. Convert input string to integer.

```
x = int(input())
print(x)
```

36. Print length of string.

```
s = "Python"
print(len(s))
```

37. Print first and last character.

```
s = "Python"
print(s[0], s[-1])
```

38. Convert string to uppercase.

```
print("python".upper())
```

39. Concatenate two strings.

```
print("Hello" + " World")
```

40. Check word exists in string.

```
print("Py" in "Python")
```

41. Compare two numbers.

```
print(5 > 3)
```

42. Check if number > 10.

```
x = 15
print(x > 10)
```

43. Logical AND and OR.

```
print(True and False)
print(True or False)
```

44. Store boolean and print type.

```
x = True
print(type(x))
```

45. Evaluate true/false condition.

```
x = 5
print(x == 5)
```

46. Arithmetic operators.

```
a = 10
b = 5
print(a + b, a - b, a * b, a / b)
```

47. Comparison operators.

```
print(5 == 5, 5 != 3, 5 > 2, 5 < 10)
```

48. Assignment operators.

```
x = 5
x += 2
print(x)
```

49. Logical operators with conditions.

```
print(5 > 3 and 10 > 5)
```

50. Difference between = and ==.

```
x = 5
print(x == 5)
```