1. Print Statements and Syntax

Exercise 1: Print "Hello, World!"

print("Hello, World!")

Exercise 2: Print your name and age

```
print("My name is Lokesh")
print("I am 22 years old")
```

Exercise 3: Use a single print() to show multiple lines using \n

print("Line 1\nLine 2\nLine 3")

2. Variables and Data Types

Exercise 4: Assign values to variables: name, age, height

```
name = "Lokesh"
age = 22
height = 5.8
```

Exercise 5: Change the value of a variable and print the new value

```
age = 23
print(age)
```

Exercise 6: Use type() to print the type of each variable (int, float, str)

```
print(type(name))
print(type(age))
print(type(height))
```

3. Basic Operators

Exercise 7: Add, subtract, multiply, divide two numbers

a = 10

```
b = 3
print(a + b)
print(a - b)
print(a * b)
print(a / b)
Exercise 8: Use modulus (%) to find the remainder
print(a % b)
Exercise 9: Use exponentiation (**) to calculate power
print(a ** b)
Exercise 10: Use floor division (//) to divide integers
print(a // b)
4. User Input
Exercise 11: Take user input for name and greet them
name = input()
print("Hello", name)
Exercise 12: Ask the user for two numbers and print their sum
num1 = int(input())
num2 = int(input())
print(num1 + num2)
Exercise 13: Convert input string to integer using int()
value = input()
value = int(value)
print(value + 5)
```

5. String Operations

Exercise 14: Concatenate two strings

```
str1 = "Hello"
str2 = "World"
print(str1 + " " + str2)
```

Exercise 15: Print the length of a string using len()

```
msg = "Python Programming"
print(len(msg))
```

Exercise 16: Access characters from a string by index

```
print(msg[0])
print(msg[-1])
```

Exercise 17: Convert string to uppercase and lowercase

```
print(msg.upper())
print(msg.lower())
```

18: Replace a word in a sentence using replace()

```
sentence = "I love apples"
print(sentence.replace("apples", "bananas"))
```

6. Boolean and Comparison

Exercise 19: Compare two numbers using ==, !=, >, <, >=, <=

```
x = 5
y = 10
print(x == y)
print(x != y)
print(x > y)
```

```
print(x < y)
print(x >= y)
print(x \le y)
Exercise 20: Combine two conditions using and f(x) = 0 and f(x) = 0
print(x > 10 \text{ or } y > 3)
Exercise 21: Use bool() to convert values to True or False
print(bool(0))
print(bool("Hello"))
7. Type Conversion
Exercise 22: Convert float to int and vice versa
f = 9.8
i = int(f)
print(i)
i2 = 7
f2 = float(i2)
print(f2)
Exercise 23: Convert string to float and int (if possible)
s = "12.34"
print(float(s))
print(int(float(s))) # Careful: convert to float first
Exercise 24: Combine different data types using str()
```

age = 25

print("I am " + str(age) + " years old")