▫ 1. Find the Largest Among Three Numbers

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
c = int(input("Enter third number: "))

if a >= b and a >= c:
    print("Largest number is:", a)
elif b >= a and b >= c:
    print("Largest number is:", b)
else:
    print("Largest number is:", c)
```

Sample Input:
12, 25, 18

Output:
Largest number is: 25

▫ 2. Display All Prime Numbers in an Interval

```
start = int(input("Enter start of interval: "))
end = int(input("Enter end of interval: "))

print("Prime numbers between", start, "and", end, "are:")
for num in range(start, end + 1):
    if num > 1:
        for i in range(2, num):
            if num % i == 0:
                break
        else:
            print(num, end=" ")
```

Sample Input:
10 to 25

Output:
Prime numbers between 10 and 25 are:
11 13 17 19 23

▫ 3. Swap Two Numbers Without a Temporary Variable

```
x = int(input("\nEnter first number: "))
y = int(input("Enter second number: "))

x = x + y
y = x - y
x = x - y

print("After swapping:")
print("x =", x)
print("y =", y)
```

Sample Input:
x = 5, y = 9

Output:
After swapping:
x = 9
y = 5

▫ 4. Python Operators Demonstration
Values:
a, b = 10, 3
list1 = [1, 2, 3]
x = [10]
y = [10]

Output:
- Arithmetic:
Addition: 13
Subtraction: 7
Multiplication: 30
Division: 3.3333333333333335
Modulus: 1
Exponent: 1000
Floor Division: 3

- Relational:
a == b: False
a != b: True
a > b: True
a < b: False

- Assignment:
c += b: 13

- Logical:
a > 5 and b < 5: True
not(a > b): False

- Bitwise:
a & b: 2
a | b: 11
a ^ b: 9
~a: -11
a << 1: 20
a >> 1: 5

- Ternary:
Max value using ternary: 10

- Membership:
2 in list1: True
5 not in list1: True

- Identity:
x is y: False
x == y: True

▫ 5. Add and Multiply Complex Numbers

```
x = complex(input("Enter first complex number: "))
y = complex(input("Enter second complex number: "))

print("Sum:", x + y)
print("Product:", x * y)
```

Sample Input:
x = 3+2j, y = 1+4j

Output:
Sum: (4+6j)
Product: (-5+14j)

▫ 6. Multiplication Table (Updated Code)

```
num = int(input("\nEnter number for multiplication table: "))
for i in range(1, 11):
    print(num, "x", i, "=", num * i)
```

Sample Input:
num = 5

Output:
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50