

Python Day 2: Conditional Statements Summary

Concept	Logic Summary
if-elif-else	Used to make decisions based on multiple conditions.
Positive/Negative/Zero	Check number's sign using >, <, and ==.
Max of Three Numbers	Use logical operators to compare three values.
Leap Year	Divisible by 4 & not 100, or divisible by 400.
Divisibility by 5 & 11	Check num % 5 == 0 and num % 11 == 0.
Character Type	Check alphabet, digit, or special using ASCII ranges.

Positive/Negative/Zero

```
a = int(input("Enter the number: "))

if a > 0:
    print("Positive")
elif a < 0:
    print("Negative")
else:
    print("Zero")
```

Maximum of Three Numbers

```
a, b, c = map(int, input("Enter the three numbers: ").split())

if a >= b and a >= c:
    print(f"{a} is maximum")
elif b >= a and b >= c:
    print(f"{b} is maximum")
else:
    print(f"{c} is maximum")
```

Leap Year Checker

Python Day 2: Conditional Statements Summary

```
a = int(input("Enter the year: "))

if (a % 100 != 0 and a % 4 == 0) or (a % 400 == 0):
    print(f"{a} is a leap year, the year will consist of 366 days.")

else:
    print(f"{a} is not a leap year !")
```

Divisibility by 5 and 11

```
a = int(input("Enter the number: "))

if a % 5 == 0 and a % 11 == 0:
    print(f"{a} is divisible by 5 and 11.")

else:
    print(f"{a} is not divisible by 5 and 11.")
```

Character Type Checker (No Methods)

```
ch = input("Enter a single character: ")

if ('A' <= ch <= 'Z') or ('a' <= ch <= 'z'):
    if ch in 'AEIOUaeiou':
        print("Vowel")

    else:
        print("Consonant")

elif '0' <= ch <= '9':
    print("Digit")

else:
    print("Special Character")
```