

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

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```
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")
```