Python If Condition Practice Programs for Beginners

Here are 20 beginner-friendly Python programs that use **if**, **if-else**, **if-elif-else**, and **nested if** statements. These exercises help strengthen your understanding of decision-making and logical conditions in Python.

1. Check if a number is positive or negative

```
num = int(input('Enter a number: '))
if num > 0:
print('Positive number')
else:
print('Negative number')
```

2. Check if a number is even or odd

```
num = int(input('Enter a number: '))
if num % 2 == 0:
print('Even number')
else:
print('Odd number')
```

3. Check if a number is divisible by 5

```
num = int(input('Enter a number: '))
if num % 5 == 0:
print('Divisible by 5')
else:
print('Not divisible by 5')
```

4. Check if a number is divisible by both 3 and 5

```
num = int(input('Enter a number: '))
if num % 3 == 0 and num % 5 == 0:
print('Divisible by both 3 and 5')
else:
print('Not divisible by both')
```

5. Find the largest of two numbers

```
a = int(input('Enter first number: '))
b = int(input('Enter second number: '))
if a > b:
print('A is larger')
else:
print('B is larger')
```

6. Find the largest of 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('A is largest')
elif b >= a and b >= c:
print('B is largest')
else:
print('C is largest')
```

7. Check if a year is a leap year

```
year = int(input('Enter year: '))
if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
print('Leap year')
else:
print('Not a leap year')
```

8. Check if a number is within a range (1 to 100)

```
num = int(input('Enter a number: '))
if 1 <= num <= 100:
print('Within range')
else:
print('Out of range')
```

9. Check eligibility to vote

```
age = int(input('Enter your age: '))
if age >= 18:
print('Eligible to vote')
else:
print('Not eligible to vote')
```

10. Check if a character is a vowel or consonant

```
ch = input('Enter a character: ')
if ch.lower() in 'aeiou':
print('Vowel')
else:
print('Consonant')
```

11. Check if a number is a multiple of 7

```
num = int(input('Enter a number: '))
if num % 7 == 0:
print('Multiple of 7')
else:
print('Not a multiple of 7')
```

12. Check if a person is eligible for driving license

```
age = int(input('Enter your age: '))
if age >= 18:
print('Eligible for license')
else:
print('Not eligible for license')
```

13. Check if a number is positive, negative, or zero

```
num = int(input('Enter a number: '))
if num > 0:
print('Positive')
elif num < 0:
print('Negative')
else:
print('Zero')
```

14. Check if a triangle is valid based on sides

```
a = int(input('Enter side 1: '))
b = int(input('Enter side 2: '))
c = int(input('Enter side 3: '))
if a + b > c and b + c > a and a + c > b:
print('Valid triangle')
else:
print('Invalid triangle')
```

15. Check if a number is between 10 and 50 and even

```
num = int(input('Enter a number: '))
if num >= 10 and num <= 50 and num % 2 == 0:
print('Number is even and between 10 and 50')
else:
print('Condition not satisfied')
```

16. Nested If Example – Check student grade

```
marks = int(input('Enter marks: '))
if marks >= 50:
print('Pass')
if marks >= 90:
print('Excellent!')
else:
print('Good work')
else:
print('Fail')
```

17. Check if a number is odd and greater than 10

```
num = int(input('Enter a number: '))
if num % 2 != 0 and num > 10:
print('Odd and greater than 10')
else:
print('Condition not met')
```

18. Check if a character is uppercase or lowercase

```
ch = input('Enter a character: ')
if ch.isupper():
print('Uppercase letter')
else:
print('Lowercase letter')
```

19. Check if a given number is zero, positive, or negative

```
num = int(input('Enter a number: '))
if num > 0:
print('Positive')
elif num == 0:
print('Zero')
else:
print('Negative')
```

20. Check if a string contains the word 'Python'

```
text = input('Enter a sentence: ')
if 'Python' in text:
print('Contains Python')
else:
print('Does not contain Python')
```