

# Python Conditional Statements

# Python Program to Check if a Number is Odd or Even

- **Source Code**

- # Python program to check if the input number is odd or even.
- # A number is even if division by 2 gives a remainder of 0. If the remainder is 1, it is an odd number.
- num = int(input("Enter a number: "))
- if (num % 2) == 0:
- print("{0} is Even".format(num))
- else:
- print("{0} is Odd".format(num))

- **Output 1**

- Enter a number: 43
- 43 is Odd

- **Output 2**

- Enter a number: 18
- 18 is Even

# Python Program to Check Leap Year

- **Source Code**

- `# Python program to check if year is a leap year or not`

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

- `if (year % 4) == 0:`

- `if (year % 100) == 0:`

- `if (year % 400) == 0:`

- `print("{0} is a leap year".format(year))`

- `else:`

- `print("{0} is not a leap year".format(year))`

- `else:`

- `print("{0} is a leap year".format(year))`

- `else:`

- `print("{0} is not a leap year".format(year))`

- **Output**

- `2000 is a leap year`

# Python Program to Find the Largest Among Three Numbers

- **Source Code**

- `# Python program to find the largest number among the three input numbers`

- `num1 = float(input("Enter first number: "))`

- `num2 = float(input("Enter second number: "))`

- `num3 = float(input("Enter third number: "))`

- `if (num1 >= num2) and (num1 >= num3):`

- `largest = num1`

- `elif (num2 >= num1) and (num2 >= num3):`

- `largest = num2`

- `else:`

- `largest = num3`

- `print("The largest number is", largest)`

- **Output**

- `The largest number is 14.0`

# Python Program to Check if a Number is Positive, Negative or Zero

- **Source Code: Using if...elif...else**

- `num = float(input("Enter a number: "))`

- `if num > 0:`

- `print("Positive number")`

- `elif num == 0:`

- `print("Zero")`

- `else:`

- `print("Negative number")`

- **Output 1**

- Enter a number: 2

- Positive number

- **Output 2**

- Enter a number: 0

- Zero

# Python Program to Check Alphabet

- # taking user input
- ch = input("Enter a character: ")
- if((ch>='a' and ch<='z') or (ch>='A' and ch<='Z')):
- print(ch, "is an Alphabet")
- else:
- print(ch, "is not an Alphabet")
- **Output1:**
- Enter a Character: T
- T is an Aphabet
- **Output2:**
- Enter a Character: 9
- 9 is not an Aphabet

# Python Program to Check Vowel or Consonant

- # taking user input
- ch = input("Enter a character: ")
- if(ch=='A' or ch=='a' or ch=='E' or ch=='e' or ch=='I' or ch=='i' or ch=='O' or ch=='o' or ch=='U' or ch=='u'):
- print(ch, "is a Vowel")
- else:
- print(ch, "is a Consonant")
- **Output1:**
- Enter a character: A
- A is a Vowel
- **Output2:**
- Enter a character: B
- B is a Consonant

**Thank You**