Easy level Conditional Statement

In [4]:
```
# Even or odd
x = int(input("Enter a number"))
if x%2==0:
    print("its even")
else:
    print("its odd")
```

```
its odd
```

In [6]:
```
#person is elligiible for vote or not
a =  int(input('Enter age'))
if a>=18:
    print("You are elligible ")
else:
    print("Not elligible")
```

```
Not elligible
```

In [20]:
```
y = int(input('Enter  a year'))
if (y%4==0 and y%100!=0 or y%400==0):
    print("its a leap year")
else:
    print("Not a leap year")
```

```
its a leap year
```

In [26]:
```
# Positive,neagative,zero
z = int(input("ENTER  A NUM"))
if z>0:
    print("+ve")
elif z<0:
    print("-ve")
else:

    print("0")
```

```
-ve
```

In [28]:
```
# greatest of two numbers
a = int(input("Enter 1st number"))
b = int(input("Enter 2nd number"))
if a>b:
    print(a)
else:
    print(b)
```

```
75
```

In [30]:
```
# number is mutiple 0f 5 or not
x = int(input("Enter a number"))
if x%5==0:
    print("mutiple of 5")
else:
    print("Not multple of 5")
```

```
mutiple of 5
```

In [42]:
```
#vowel or consonant
z = input("Enter a letter")
if z in (z =='A','E','I','O','U','a','e','i','o','u'):
    print("vowel")
else:
    print("consonant")
```

```
consonant
```

In [44]:
```
#Senior Citizen
x = int(input("Enter your age"))
if x>=60:
    print("You are senior citizen🙏")
else:
    print("You are not under senior citizen")
```

```
You are senior citizen🙏
```

In [48]:
```
#one digit number check
h = int(input('Enter a digit'))
if h<10:
    print("Its one digit")
else:
    print("Not one digit")
```

```
Its one digit
```

In [74]:
```
x = int(input("Enter time 24hoursForm"))
if x<12:
    print("Good Morning")
else:
    print("Good Afternoon")
```

```
Good Morning
```

In [78]:
```
# string empty or not
f = input("Enter a string")
if not f:
    print('Its empty')
else:
    print('Not empty')
```

```
Its empty
```

In [88]:
```
# veify perfect sqaure
import math
x = int(input("Enter a number"))
if math.isqrt(x)**2==x:
    print("Its perfect sqr")
else:
    print("its not")
```

```
its not
```

In [92]:
```
# Determine number bet 1 to 100
c = int(input("Enter a number"))
if c>0 and c<=100:
    print('Number is  1 to 100')
else:
    print("Number is not")
```

```
Number is not
```

In [94]:
```
# 14. Print "Weekend" if the day is Saturday or Sunday; otherwise, print "Weekda
d = input('Enter a day')
if d in['Saturday','Sunday']:
    print("Weekend")
else:
    print("Weekday")
```

```
Weekday
```

In [96]:
```
# divisible by 3 & and 7
a = int(input("Enter a number"))
if a%3==0 and a%7==0:
    print("Divisible by 3,7")
else:
    print("Not divisible")
```

```
Divisible by 3,7
```

In [ ]:
```

```

In [111…
```
#check sum of two number greater than 100
j=int(input('Enter first number'))
k= int(input('Enter 2nd number'))
if (j+k)>100:
    print('greater than 100 of sum 2 digit')
else:
    print('not greater')
```

```
greater than 100 of sum 2 digit
```

In [117…
```
#Write a program to find the minimum of two numbers
a = int(input("Enter a number"))
b = int(input("Enter number"))
if a<b:
    print('This is minimum',a)
else:
    print('This is minimum',b)
```

```
This is minimum 45
```

In [127…
```
#if a number is divisible by 2 but not by 3
r = int(input("Enter a number"))
if r%2==0 and r%3!=0:
    print("is divisible by 2")
else:
    print("not by ")
```

```
is divisible by 2
```

In [131…
```
#a given alphabet is uppercase or lowercase
x = input("Enter a string")
if x.isupper():
    print("This is a uppercase")
else:
    print("This is lowecase")
```

```
This is lowecase
```

In [3]:
```
#Check if a triangle is valid given three side lengths
a = int(input("Enter side of a triangle"))
b = int(input("Enter 2nd side of a triangle"))
```

```
c = int(input("Enter 3rd side of a triangle"))
if a+b>c and b+c>a and a+c>b:
    print("It is a triangle")
else:
    print("Not a triangle")
```

```
It is a triangle
```

In [5]:
```
# largest number of three number
x = int(input("Enter first num"))
y = int(input("Enter 2nd num"))
z = int(input("Enter 3rd num"))
if x>y and x>z:
    print('this is greater',x)
elif y>x and y>z:
    print('This is greater',y)
else:
    print('greater',z)
```

```
This is greater 78
```

In [21]:
```
p = int(input("Enter a number: "))
if  p > 1:
    for i in range(2, int(num**0.5) + 1):
        if p % i == 0:
            print("Not a prime number")
            break
    else:
        print("Prime number")
else:
    print("Not a prime number")
```

```
Prime number
```

In [29]:
```
#if a person is eligible for a driving license
z = int(input("Enter your age: "))
pass_test = input('have you passed in test(yes/No):').lower()
if z>=18 and pass_test == 'yes':
    print("Congrats your eligible for driving license")
else:
    print("Sorry you are not.")
```

```
Congrats your eligible for driving license
```

In [41]:
```
#Determine if a triangle is equilateral, isosceles, or scalene
j = int(input("Enter one side of triangle"))
k = int(input('Enter 2nd side of triangle'))
l = int(input('Enter 3rd side of triangle'))
if j== k ==l:
    print("Equilateral traingle")
elif j==k or k==l or l==j:
    print("Isoscale")
else:
    print("scalane")
```

```
Equilateral traingle
```

In [43]:
```
#Determine if a student passes or fails
s = int(input("Enter student marks"))
if s>=40:
    print("You are pass")
```

```
else:
    print("Try again failed")
```

```
Try again failed
```

In [49]:
```
#Check if a number is a palindrome
x =  (input("Enter a number"))
if x== x[::-1]:
    print("Its palindrome")
else:
    print("Its not palindrome")
```

```
Its palindrome
```

In [57]:
```
#Calculate electricity bill
c = int(input("Enter your units"))
if c<=100:
    bill = c*5
elif c<=300:
    bill = (100*5)+(c-100) *10
else:
    bill = (100*5)+ (200*10)+(c*300)*15
print("Your bill",bill)
```

```
Your bill 700
```

In [61]:
```
# Find the grade of a student
c = int(input("Enter your grade"))
if c >=90:
    print("Grade A+")
elif c>=80:
    print("Grade A")
elif c>=70:
    print("Grade B+")
elif c>=60:
    print("grade B")
elif  c>=40:
    print("grade C")
else:
    print("Fail")
```

```
Grade A
```

In [69]:
```
#Determine if a given date is valid
import calendar
d = int(input("Enter date"))
m = int(input("Enter a month"))
y = int(input("Enter a year"))
if 1<=m<=12 and 1<=d<=calendar.monthrange(y,m)[1]:
    print("Valid date")
else:
    print("Invalid date")
```

```
Valid date
```

In [73]:
```
# Check if a given time is AM or PM
H = int(input("enter 24-h time"))
if H<12:
    print("Am")
else:
    print("Pm")
```

Pm

In [81]:
```
#Check if a number is an Armstrong number
n = input("Enter a number")
power = len(n)
if sum(int(digit)**power for digit in n) == int(n):
    print("armstrong")
else:
    print("Not armstrong")
```

Not armstrong

In [83]:
```
#Determine the type of quadrilateral
j = int(input("Enter one side"))
k = int(input('Enter 2nd side'))
l = int(input('Enter 3rd side'))
m = int(input('Enter 4th side '))
if j == k == l== m:
    print("Quadrilateral")
elif j==l or k==m:
    print("quadrilateral")
else:
    print("Not quadri")
```

quadrilateral

In [85]:
```
#Implement a basic calculator
a = float(input("Enter a number"))
b = float(input("Enter a number"))
o = input("Enter opear(+,-,*,/):")
if o=='+':
    print("ans",a+b)
elif o=='-':
    print("ans",a-b)
elif o=='*':
    print("ans",a*b)
elif o=='/':
    print("ans",a/b)
else:
    print('Invalid')
```

ans 2652.0

In [87]:
```
#k if a bank account balance is sufficient for withdrawal
b = float(input("Enter account balance: "))
w = float(input("Enter withdrawal amount: "))
if b >= w:
    print("Withdrawal successful")
else:
    print("Insufficient funds")
```

Withdrawal successful

In [103…
```
z = float(input("Enter temperature: "))
u = input("Enter unit (C/F): ").upper()
if u == "C":
    print("Fahrenheit:", (t * 9/5) + 32)
elif u == "F":
    print("Celsius:", (t - 32) * 5/9)
else:
    print("Invalid unit")
```

```
Celsius: 7.666666666666665
```

In [107…
```python
# Check if a number lies within a range (50-100)
a = int(input("Enterb a num"))
if  a>=50 and a<=100:
    print("within range")
else:
    print("not in range")
```

```
not in range
```

In [111…
```python
#Determine if a year is a century year
y = int(input("enter a year"))
if y%100==0:
    print("century year")
else:
    print("Not century")
```

```
century year
```

In [113…
```python
#Check if a number is a power of 2
n = int(input("Enter a number: "))
if n > 0 and (n & (n - 1)) == 0:
    print("Power of 2")
else:
    print("Not a Power of 2")
```

```
Power of 2
```

In [115…
```python
# Determine how many days a month has
m = int(input("Enter month (1-12): "))
y = int(input("Enter year: "))
d = [31, 28 + (1 if (y % 4 == 0 and y % 100 != 0) or (y % 400 == 0) else 0), 31,
30, 31, 30, 31, 31, 30, 31, 30, 31]
print("Days:", d[m - 1])
```

```
Days: 31
```

In [127…
```python
import re
password = input("Enter password: ")
if len(password) >= 8 and re.search(r"[A-Za-z]", password) and re.search(r"\d",
    print("Valid Password")
else:
    print("Invalid Password")
```

```
Valid Password
```

In [ ]: