

In []:

#date 18/12/2025

...

(Class Topics and Documentations)

Match case has 2 systems

match var:

case value :

case value :

case value :

case ____

must be character / String /int

we can use it for the multiple cases/

variation 2

match var:

case value1|value2|value3 |(and so on...) :

case ____

Question : day no. to day name

see the cell 1

use the 2nd variation for the leap year finding or number of days.

see the cell2

[Ternery is never directly acheiveable]

This is an expression , no use of colon , since the colon is used for indent.

The ternary is made into conditional expression

eg. true value :

var= "true-value" if condition else "false-value"

expression / equations are written in a single line only.(Definition of expression)

eg. major and minor (program in cell 3)

[Loops in python]

loops means repeat until the condition is satisfied.

loops are two types in python : For loop and while loop.

while is just like as C.

for is quite different:

for loop does not depend on the number , is depend on the list / number of list.

[1,2,3,4,5] list has 5 values

```

or l = [1,2,3,4,5]
it uses the in clause (mandatory)
for <var> in list:
    #The statements needed to be looped.

```

use the #cell 4

problem in for loop , when list has more than thousands then cannot iterate on list

Then creating a list there is a function named as range.
in the cell 5

cell 6 : makes the fibonacci series.
...

```

'
                                (Class Topics and Documentations)\n\n\n\nMatch
case has 2 systems\nmatch var:\n    case value :\n        -----
case value :\n        -----
case ____\nmust be character / String /int\nwe can use it for the
multiple cases/ \n\nvariation 2\nmatch var:\n    case
value1|value2|value3 |(and so on...) :\n        -----
____\n\nQuestion : day no. to day name\nsee the cell 1\nuse the
2nd variation for the leap year finding or number of days.\nsee the
cell2 \n\n[Ternary is never directly acheiveable]\n\nThis is an
expression , no use of colon , since the colon is used for
indent.\nThe ternary is made into conditional expression\n\nneg. true
value :\nvar= "true-value" if condition else "false-
value"\nexpression / equations are written in a single line only.
(Definition of expression)\neg. major and minor (program in cell
3)\n\n\n[Loops in python]\nloops means repeat until the condition is
satisfied.\nloops are two types in python : For loop and while
loop.\nwhile is just like as C.\nfor is quite different:\n\n'

```

```
In [11]: # cell 1
d= int (input('Enter day number'))
print("You entered : ",d)
match d :
    case 1:
        print("Monday")
    case 2:
        print("Tuesday")
    case 3:
        print("Wednesday")
    case 4:
        print("Thursday")
    case 5:
        print("Friday")
    case 6:
        print("Saturday")
    case 7:
        print("Sunday")
    case _:
        print("invalid")
```

```
You entered :  1
Monday
```

```
In [5]: # cell 2
m = int(input("Enter the month number"))
print("You entered month number :",m)

y = int(input("Enter the year"))
print("You entered year :",y)

match m:
    case 1|3|5|7|8|10|12:
        print("31 days")
    case 4|6|9|11:
        print("30 days")
    case 2:
        if(y%4==0 and y%100!=0) or (y%400==0):
            print("29 days")
        else:
            print("28 days")
    case _:
        print("Invalid Month")
```

```
You entered month number : 2
You entered year : 2024
29 days
```

```
In [8]: #cell 3
a = int(input("Enter your age :"))
print("you entered your age" ,a)

p = "Major" if (a>=18) else "minor"
print(p)

a = int(input("Enter your age :"))
print("you entered your age" ,a)

p = "Major" if (a>=18) else "minor"
print(p)
```

```
you entered your age 15
minor
you entered your age 22
Major
```

```
In [13]: #cell 4 prints values
for i in [1,2,3,4,5]:
    print(i)
print("2nd variation")
l = [1,2,3,4,5]
for i in l:
    print(i)
```

```
1
2
3
4
5
2nd variation
1
2
3
4
5
```

```
In [16]: #cell 5 (range makes a list of desired numbers)
#it has 3 parameters
#range(start , end, step )      #rule end = start + 1
#step by default is 1 or it can be a +ve / -ve number. For eg.
print("For the ascending 1 to 5")
for i in range (1,6):
    print(i)
print("For the descending 5 to 1")
for i in range (5,0,-1):
    print(i)
```

```
For the ascending 1 to 5
1
2
3
4
5
For the descending 5 to 1
5
4
3
2
1
```

```
In [18]: #Cell 6 Fibonacci Series

a = int(input("Enter the first number :"))
b = int(input("Enter the Second number :"))
t = int(input("Enter the total number of terms :"))
print("first term :",a," second term :",b," Total number of terms :",t)
print(a,end=' ')
print(b,end=' ')
for i in range(1,t-2+1):
    c=a+b
    print(c,end=' ')
    a=b
    b=c
```

```
first term : 0  second term : 1  Total number of terms : 10
0 1 1 2 3 5 8 13 21 34
```