

```
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

[Ternary is never directly achievable]

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\nMatch  
case has 2 systems\nmatch var:\n case value :\n -----\\n  
 case value :\n -----\\n case value :\n -----\\n  
 case \_\_\_\_\\nmust be character / String /int\\n\\nwe can use it for the  
multiple cases/ \\n\\nvariation 2\\n\\nmatch var:\\n case  
 value1|value2|value3 |(and so on...) :\n -----\\n\\n case  
 \_\_\_\_\\n\\nQuestion : day no. to day name\\nsee the cell 1\\n\\nuse the  
2nd variation for the leap year finding or number of days.\\nsee the  
cell2 \\n\\n[Ternary is never directly achievable]\\n\\nThis is an  
expression , no use of colon , since the colon is used for  
indent.\\nThe ternary is made into conditional expression\\n\\neg. 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[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
```