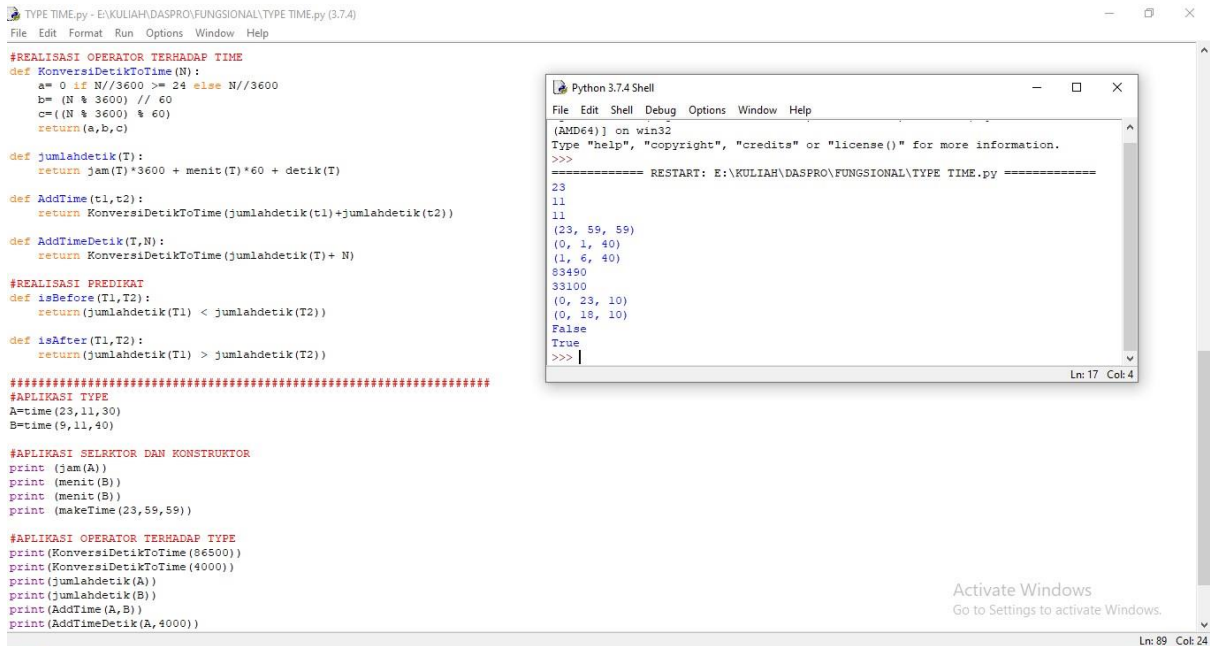


# 1. TYPE BENTUKAN TIME



```
#TYPE TIME.py - E:\KULIAH\DAISPRO\FUNGSIONAL\TYPE TIME.py (3.7.4)
File Edit Format Run Options Window Help

#REALISASI OPERATOR TERHADAP TIME
def KonversiDetikToTime(N):
    a= 0 if N//3600 >= 24 else N//3600
    b= (N % 3600) // 60
    c= (N % 3600) % 60
    return(a,b,c)

def jumlahdetik(T):
    return jam(T)*3600 + menit(T)*60 + detik(T)

def AddTime(t1,t2):
    return KonversiDetikToTime(jumlahdetik(t1)+jumlahdetik(t2))

def AddTimeDetik(T,N):
    return KonversiDetikToTime(jumlahdetik(T)+ N)

#REALISASI PREDIKAT
def isBefore(T1,T2):
    return(jumlahdetik(T1) < jumlahdetik(T2))

def isAfter(T1,T2):
    return(jumlahdetik(T1) > jumlahdetik(T2))

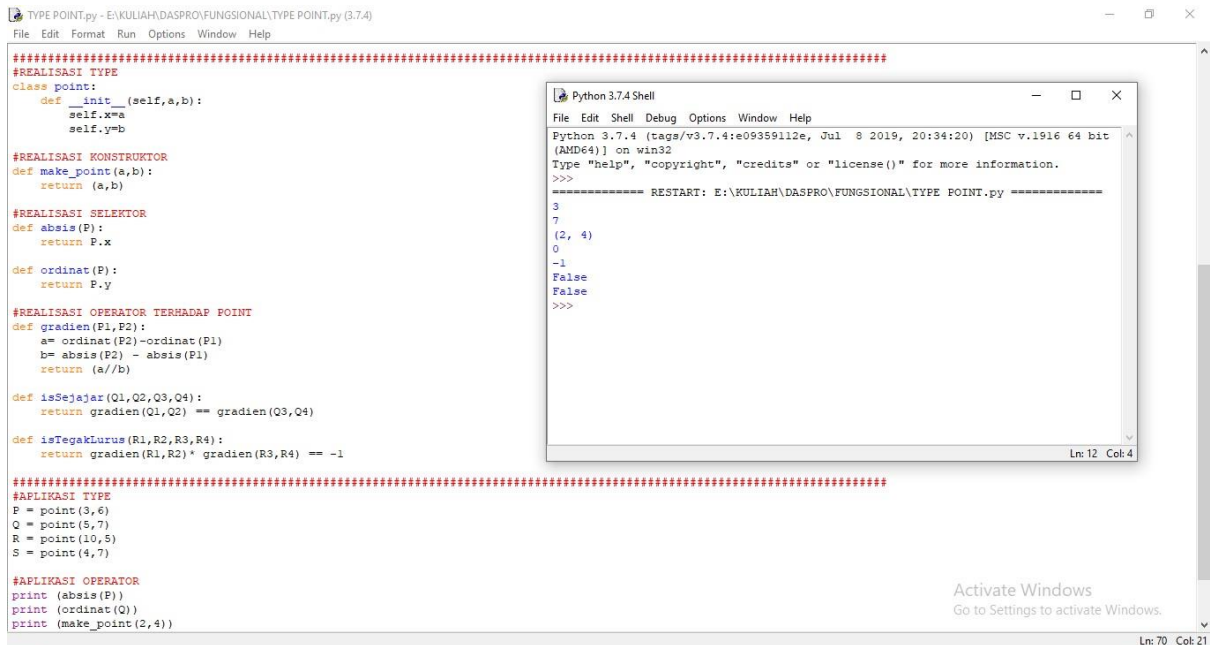
#####
#APLIKASI TYPE
A=time(23,11,30)
B=time(9,11,40)

#APLIKASI SELEKTOR DAN KONSTRUKTOR
print (jam(A))
print (menit(B))
print (menit(B))
print (makeTime(23,59,59))

#APLIKASI OPERATOR TERHADAP TYPE
print(KonversiDetikToTime(86500))
print(KonversiDetikToTime(4000))
print(jumlahdetik(A))
print(jumlahdetik(B))
print(AddTime(A,B))
print(AddTimeDetik(A,4000))

#####
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
(AMD64) on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\DAISPRO\FUNGSIONAL\TYPE TIME.py =====
23
11
11
(23, 59, 59)
(0, 1, 40)
(1, 6, 40)
83490
33100
(0, 23, 10)
(0, 18, 10)
False
True
>>>
```

# 2. TYPE BENTUKAN POINT



```
#TYPE POINT.py - E:\KULIAH\DAISPRO\FUNGSIONAL\TYPE POINT.py (3.7.4)
File Edit Format Run Options Window Help

#####
#REALISASI TYPE
class point:
    def __init__(self,a,b):
        self.x=a
        self.y=b

#REALISASI KONSTRUKTOR
def make_point(a,b):
    return (a,b)

#REALISASI SELEKTOR
def absis(P):
    return P.x

def ordinat(P):
    return P.y

#REALISASI OPERATOR TERHADAP POINT
def gradien(P1,P2):
    a= ordinat(P2)-ordinat(P1)
    b= absis(P2) - absis(P1)
    return (a//b)

def isSejajar(Q1,Q2,Q3,Q4):
    return gradien(Q1,Q2) == gradien(Q3,Q4)

def isTegakLurus(R1,R2,R3,R4):
    return gradien(R1,R2) * gradien(R3,R4) == -1

#####
#APLIKASI TYPE
P = point(3,6)
Q = point(5,7)
R = point(10,5)
S = point(4,7)

#APLIKASI OPERATOR
print (absis(P))
print (ordinat(Q))
print (make_point(2,4))

#####
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: E:\KULIAH\DAISPRO\FUNGSIONAL\TYPE POINT.py =====
3
7
(2, 4)
0
-1
False
False
>>>
```