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Tugas Komputasi Geofisika (PYTHON)

Pada kesempatan ini saya akan menjelaskan perihal scrip dan sistem ATM menggunakan aplikasi Jupyter Note Book:

```
In [ ]: # Tugas Asistensi Komputasi Geofisika (Phyton)
print('Welcome to KomGe ATM')
print('Enter 0 To Return Your Card')
restart=('Y')
chances = 3
balance = 670000
while chances >= 0:
    pin = int(input('Please Enter Your Pin:'))
    if pin == (1234):
        print('You entered you pin Correctly\n')
        while restart not in ('n','NO','no','N'):
            print('Please Enter 1 For Your Balance\n')
            print('Please Enter 2 To Make a Withdrawl\n')
            print('Please Enter 3 To Pay in\n')
            print('Please Enter 4 To Return The previous Menu\n')
            option = int(input('What Would you like to choose?'))
            if option == 1:
                print('Your Balance is Rp',balance,'\n')
                restart = input('Would You you like to go back? ')
                if restart in ('n','NO','no','N'):
                    print('Thank You')
                    break
            elif option == 2:
                option2 = ('y')
                withdrawl = float(input('How Much Would you like to withdraw? Rp \nRp100000/Rp200000/Rp400000/Rp600000/Rp800000/'))
                if withdrawl in [100000, 200000, 400000, 600000, 800000, 1000000]:
                    balance = balance - withdrawl
                    print('\nYour Balance is now Rp',balance)
                    restart = input('Would You you like to go back? ')
                    if restart in ('n','NO','no','N'):
                        print('Thank You')
                        break
                elif withdrawl != [10, 20, 40, 60, 80, 100]:
                    print('Invalid Amount, Please Re-try\n')
            else:
                print('Invalid Amount, Please Re-try\n')
```

Gambar 1.1

Gambar 1.1 adalah script bagian pertama untuk sistem ATM ini mula-mula saya memakai fungsi print() untuk menambahkan tulisan pada hasil, setelah itu saya mempuat beberapa persamaan untuk mempermudah penulisan script. Langkah selanjutnya menggunakan fungsi while betujuan apabila chance lebih besar dari (0) akan diteruskan, setelah itu saya menggunakan fungsi int(input()) untuk memasukan pin dalam bentuk angka.

Apabila Pin anda benar (1234) maka akan diteruskan ke menu utama yaitu (1) untuk melihat jumlah tabungan , (2) untuk mengambil uang, (3) untuk menyimpan uang , (4) untuk kembali ke menu sebelumnya. Sistem pada menu (1) saya meggunkan fungsi if untuk memperlihatkan jumlah tabungan(balance).

Pada menu (2) menggunakan fungsi *elif* untuk menampilkan menu lalu menggunakan fungsi *float(input())* untuk memasukan jumlah uang yang akan diambil, lalu digunakan fungsi *if* untuk melanjutkan menu apabila bialngan yang dimasukan sudah benar dan fungsi *else* apabila salah, lalu dengan fungsi *break* maka akan selesai dan kembali ke menu sebelumnya.

```

    elif restart == ('n', 'NO', 'no', 'N'):
        print('Thank You')
        break
    elif withdrawl != [10, 20, 40, 60, 80, 100]:
        print('Invalid Amount, Please Re-try\n')
        restart = ('y')
    elif withdrawl == 1:
        withdrawl = float(input('Please Enter Desired amount:'))

    elif option == 3:
        Pay_in = float(input('How Much Would You Like To Pay In? '))
        balance = balance + Pay_in
        print ('\nYour Balance is now Rp',balance)
        restart = input('Would You you like to go back? ')
        if restart in ('n', 'NO', 'no', 'N'):
            print('Thank You')
            break
    elif option == 4:
        print('Please wait whilst your card is Returned...\n')
        print('Thank you for you service')
        break
    else:
        print('Please Enter a correct number. \n')
        restart = ('y')
    elif pin == (0):
        print('Thanks for using our service')
        break
    else :
        print('Incorrect Password')
        chances = chances - 1
        if chances == 0:
            print('\nYour Account Has Been blocked')
            break

```

Gambar 1.2

Untuk menu (3) digunakan fungsi *elif* untuk melanjutkan ke menu selanjutnya lalu fungsi *float(input())* untuk memasukan jumlah uang yang akan di tabung , lalu fungsi *break* untuk menyudahi dan kembali ke menu sebelumnya, dan menu (4) untuk kembali ke menu sebelumnya yaitu menu masukan pin. Lalu ada fungsi *elif* pada menu pertama berfungsi untuk menyudahi penggunaan ATM, Dan fungsi *else* untuk memblok akun apabila kesempatan mengisi pin yang sudah benar telah habis.

Berikut adalah contoh pemakayan script diatas.:



```

Welcome to KomGe ATM
Enter 0 To Return Your Card

Please Enter Your Pin: 

```

Gambar 2.1

Apabila pengisian pin sudah benar maka akan keluar menu utama

```
Welcome to KomGe ATM
Enter 0 To Return Your Card
Please Enter Your Pin:1234
You entered you pin Correctly

Please Enter 1 For Your Balance

Please Enter 2 To Make a Withdrawl

Please Enter 3 To Pay in

Please Enter 4 To Return The previous Menu
```

What Would you like to choose?

Gambar 2.2

Apabila pengisian pin salah maka

```
Welcome to KomGe ATM
Enter 0 To Return Your Card
Please Enter Your Pin:111
Incorrect Password
Please Enter Your Pin:111
Incorrect Password
Please Enter Your Pin:11
Incorrect Password

Your Account Has Been blocked
```

Gambar 2.3

Menu 1 dan 2

```
Please Enter 1 For Your Balance

Please Enter 2 To Make a Withdrawl

Please Enter 3 To Pay in

Please Enter 4 To Return The previous Menu

What Would you like to choose?1
Your Balance is Rp 670000

Would You you like to go back?
Please Enter 1 For Your Balance

Please Enter 2 To Make a Withdrawl

Please Enter 3 To Pay in

Please Enter 4 To Return The previous Menu

What Would you like to choose?2
How Much Would you like to withdraw? Rp
Rp100000/Rp200000/Rp400000/Rp600000/Rp800000/Rp1000000 for other enter 1: 100000

Your Balance is now Rp 570000.0
Would You you like to go back?
Please Enter 1 For Your Balance
```

Gambar 2.4

Menu 3, 4 , dan sudah transaksi

```
Please Enter 1 For Your Balance  
Please Enter 2 To Make a Withdrawl  
Please Enter 3 To Pay in  
Please Enter 4 To Return The previous Menu  
  
What Would you like to choose?3  
How Much Would You Like To Pay In? 1000  
  
Your Balance is now Rp 571000.0  
Would You you like to go back?  
Please Enter 1 For Your Balance  
  
Please Enter 2 To Make a Withdrawl  
  
Please Enter 3 To Pay in  
  
Please Enter 4 To Return The previous Menu  
  
What Would you like to choose?4  
Please wait whilst your card is Returned...  
  
Thank you for you service  
Please Enter Your Pin:0  
Thanks for using our service
```

Gambar 2.5