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KELAS   : Informatika VII

Challenge 1

```python
n = int(input("nilai : "))

if n > 10:
    print("this is over 10")
elif n == 10:
    print("this is equal to 10")
else:
    print("This is under 10")
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\Users\mzaki\Desktop\tugas modul14> & C:/User
nilai : 13
this is over 10
PS C:\Users\mzaki\Desktop\tugas modul14>
```

Challenge 2

```python
import re
# agar cepat import regular expressions
inputan = input("pass : ")
val = True
while val:
    if (len(inputan) < 6 or len(inputan) > 16):
        break
    elif not re.search("[a-z]", inputan):
        break
    elif not re.search("[A-Z]", inputan):
        break
    elif not re.search("[0-9]", inputan):
        break
    elif not re.search("[$#@]", inputan):
        break
    elif re.search("\s", inputan):
        break
    else:
        print("valid")
        val = False
        break
if val:
    print("tidak valid")
```

```
PROBLEMS     OUTPUT     DEBUG CONSOLE     TERMINAL

PS C:\Users\mzaki\Desktop\tugas modul14> & C:/
pass : 123456Az#
valid
PS C:\Users\mzaki\Desktop\tugas modul14>
```

Challenge 3

```python
dbvirtual = [[], []]
n = int(input("masukkan nilai : "))

for i in range(1, n+1):
    if i % 2 == 0:
        dbvirtual[0].append(i)
        continue
    dbvirtual[1].append(i)

print("genap : ", len(dbvirtual[0]))
print("ganjil : ", len(dbvirtual[1]))
```

```
PROBLEMS        OUTPUT        DEBUG CONSOLE        TERMINAL

PS C:\Users\mzaki\Desktop\tugas modul14> & C:/U
masukkan nilai : 9
genap :  4
ganjil :  5
PS C:\Users\mzaki\Desktop\tugas modul14>
```
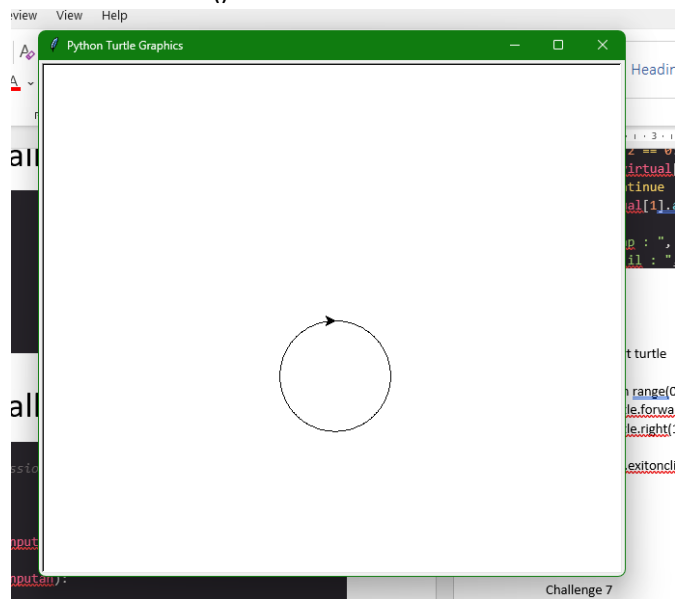
Challenge 4

A. .

```
import turtle

for i in range(0, 360):
    turtle.forward(1)
    turtle.right(1)

turtle.exitonclick()
```


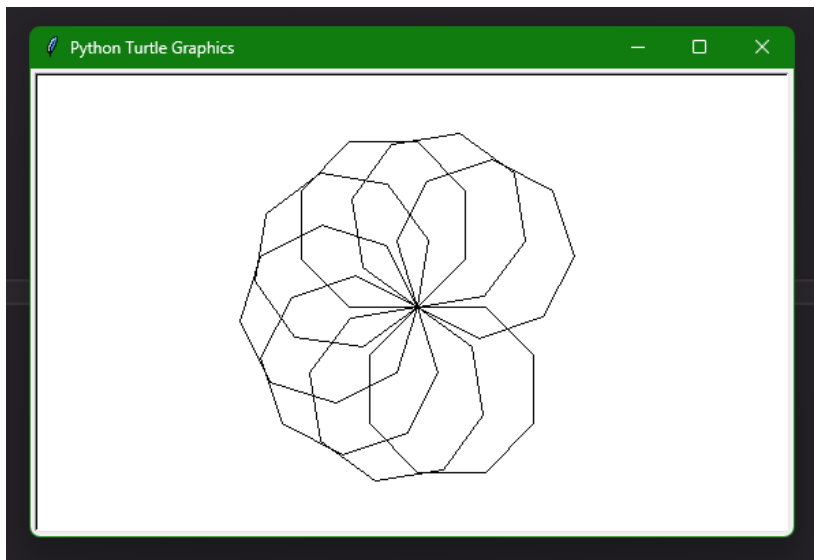**B.** .

```
import turtle
import random

for i in range(0, 8):
    for i in range(0, 8):
        turtle.forward(50)
        turtle.right(45)

    turtle.right(36)
turtle.hideturtle()
turtle.exitonclick()
```
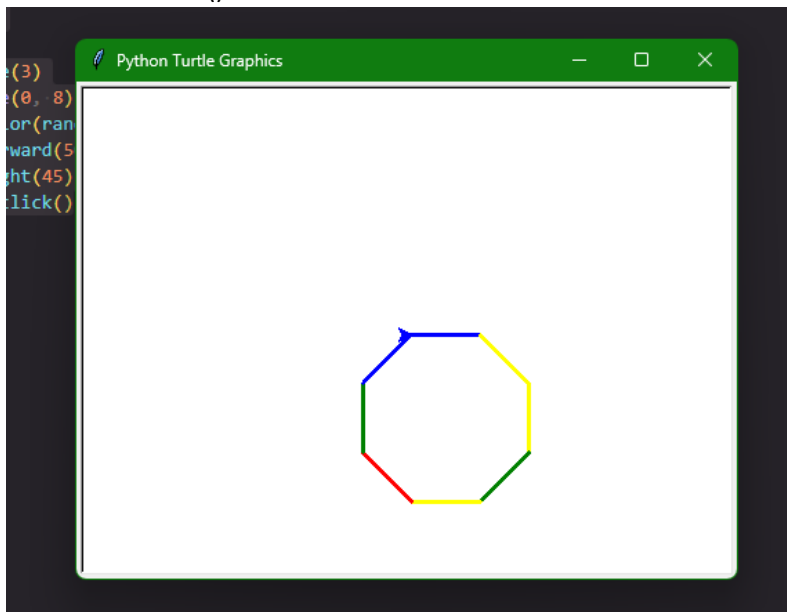
C. .

```python
import turtle
import random

turtle.pensize(3)
for i in range(0, 8):
    turtle.color(random.choice(["Red", "Blue", "Yellow", "Green"]))
    turtle.forward(50)
    turtle.right(45)
turtle.exitonclick()
```

Challenge 5

Error penyebabnya adalah kuran () pada baris ke 2 dan kurang nya koma pada baris ke 4

Berikut program yang sudah dibenahi dan siap pakai

```python
import datetime
now = datetime.datetime.now()
print("----")
print("waktu hari ini =", now)
print("Tahun =", now.year)
print("Bulan =", now.month)
print("Hari =", now.day)
print("jam =", now.hour)
print("menit =", now.minute)
print("detik =", now.second)

print("------------")
print("1 minggu lalu adalah : ", datetime.timedelta(weeks=1))
print("100 hari yang lalu :", now-datetime.timedelta(days=100))
print("1 minggu kedepan : ", now+datetime.timedelta(weeks=1))
print("1000 hari dari sekarang: ", now + datetime.timedelta(days=1000))

print("------------")
birthday = datetime.datetime(2020, 12, 14)

print("hitung mundur hari ulang tahun....", birthday)
print("------------")
```



```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

jam = 17
menit = 2
detik = 14
------------
1 minggu lalu adalah :  7 days, 0:00:00
100 hari yang lalu : 2022-10-06 17:02:14.583916
1 minggu kedepan :  2023-01-21 17:02:14.583916
1000 hari dari sekarang:  2025-10-10 17:02:14.583916
------------
hitung mundur hari ulang tahun.... 2020-12-14 00:00:00
------------
PS C:\Users\mzaki\Desktop\tugas modul14>
```

Challenge 6

```python
import datetime
x = datetime.datetime.now()

# ini adalah inputan
# tetapi kerena waktu yang mepet saya buat langsung saja
nama = "naruto"
beli = "3 nasi goreng 1 es jeruk"
tagihan = "RP.40000"
Uang = "Rp.900000"
kembalian = "Rp.860000"


def struk():
    print('='*25)
    print("="*7, "STRUK", "="*7)
    print('='*25)
    print("="*3, nama)
    print("="*3, beli)
    print("="*3, tagihan)
    print("="*3, Uang)
    print("="*3, kembalian)
    print('='*25)
    print("pesanan dibuat pada =", x)
    print('='*25)


struk()
```

Challenge 7

```python
def fibo(n):
    angkapertama = 1
    angkakedua = 1

    print(angkapertama, angkakedua, end=" ")
    n -= 2
    while n > 0:
        print(angkapertama + angkakedua, end=" ")
        temp = angkakedua
        angkakedua = angkapertama + angkakedua
        angkapertama = temp
        n -= 1


# sesuai soal, cukup 7 saja
if __name__ == "__main__":
    print("Deret fibonacci : ")
    fibo(7)
    pass
```

```
PROBLEMS        OUTPUT        DEBUG CONSOLE        TERMINAL

PS C:\Users\mzaki\Desktop\tugas modul14> & C:/Us
Deret fibonacci :
1 1 2 3 5 8 13
PS C:\Users\mzaki\Desktop\tugas modul14>
```

ORIGINAL FILE

Hanya untuk jaga jaga saja, karena terkadang Microsoft word merubah text secara auto (koreksi), dikarenakan takut eror maka saya cantumkan file nya

https://drive.google.com/drive/folders/1OLjeKh6N7LK0fNQXyBtyaQhSr5ZvTpGl