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D

TUGAS MODUL 1
SOAL-SOAL UNTUK MAHASISWA

Soal Nomor 1

```
print("Keterangan: jika output muncul cuma nama nomer, anda hanya perlu memanggil nama fungsi untuk memunculkan outputnya")

print ( "Nomor 1" )

def cetakSiku(x) :
    for i in range(x+1) :
        print ("*"*i)
```

Soal Nomor 2

```
print("Nomor 2")

def gambarlahPersegiEmpat(x,y) :
    for i in range(x) :
        if i==0 or i== x-1 :
            print ("@"*y)
        else :
            print("@" + " " * (y-2) + " @")
```

Soal Nomor 3

```
print("Nomor 3")

def jumlahHurufVokal(x):
    vokal="aiueoAIUEO"
    jumlah=0
    for i in x :
        if i in vokal :
            jumlah+=1
    return (len(x),jumlah)


def jumlahHurufKonsonan(x):
```

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```
    vokal="aiueoAIUEO"
    jumlah=0
    for i in x :
        if i not in vokal:
            jumlah+=1
    return (len(x),jumlah)
```

Soal Nomor 4

```
print("Nomor 4")
def rerata(b=[]):
    x=0
    n=0
    if b!=[]:
        for i in b:
            x+=i
            n+=1
        return x/n
    return "illegal"
print(rerata([2,2]))
```

Soal Nomor 5

```
print("Nomor 5")
from math import sqrt as sq
def apakahPrima(n):
    n=int(n)
    assert n>=0
    primakecil=[2, 3, 5, 7, 11]
    bukanprima=[0, 1, 4, 6, 8, 9, 10]
    if n in primakecil :
```

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```
        return True
    elif n in bukanprima:
        return False
    else :
        for i in range(2,int(sq(n))+1):
          if(n%i==0):
              return False
    return True
```

Soal Nomor 6

```
print("Nomor 6")
def cetakbilanganprima():
    prima=list()
    for i in range(2,100):
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if(a):
            print(i)
            prima.append(i)
cetakbilanganprima()
```

Soal Nomor 7

```
print("Nomor 7")
def faktorprima(n):
    prima=list()
    for i in range(2,n):
```

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```
        a = True
        for iter in prima:
            if(i%iter==0):
                a=False
                break
        if a and n%i==0:
            prima.append(i)
    return prima
print(faktorprima(143))
```

Soal Nomor 8

```
print("Nomor 8")
def apakahTerkandung(a,b):
    return a in b
print(apakahTerkandung("db","abcdcdsqwedb"))
print(apakahTerkandung("abd","abc"))
```

Soal Nomor 9

```
print("Nomor 9")
def iterasi():
    for i in range(1,100):
        if (i%3)!=0 and (i%5)!=0:
            print(i)
        else:
            if (i%15)==0:
                print("pyton UMS")
            elif (i%3)==0:
                print("python")
            elif (i%5)==0:
```

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```
            print("UMS")

iterasi()
```

Soal Nomor 10

```
print("Nomor 10")

def selesaikanABC(a,b,c):
    a=float(a)
    b=float(b)
    c=float(c)
    D=(b**2)-(4*a*c)
    if D<0:
        return "determinan negatif"
    return  "determinan positif"
print(selesaikanABC(1,1,2))
```

Soal Nomor 11

```
print("Nomor 11")

def apakahKabisat(a):
    if(a%400==0):
        return True
    if(a%100==0):
        return False
    if(a%4==0):
        return True
    return False
```

Soal Nomor 12

```
print("Nomor 12")

import random

def permainan():
```

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```
    a=random.randrange(0, 100)

    while(True):

        b=str(input("Saya menyimpan sebuah angka bulat antara 1 sampai 100. coba tebak hayo. di enter ya"))

        b=int(input("masukan angka: "))

        if(b>a):

            print("terlalu besar, coba lagi")

        elif(b<a):

            print("terlalu kecil, coba lagi")

        else:

            print("benar")

            break

permainan()
```

Soal Nomor 13

```
print ("Nomor 13")

def katakan(a):


angka=("","satu","dua","tiga","empat","lima","enam","tujuh","delapan","sembilan","sepuluh","sebelas")

    hasil=""

    n=int(a)

    if n >=0 and n<=11:

        hasil=hasil+angka[n]

    elif n<20:

        hasil=angka[(n%10)]+" belas"

    elif n<100:

        hasil=katakan(n/10)+" puluh "+katakan(n%10)

    elif n<200:
```

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```
        hasil="seratus "+katakan(n-100)
    elif n<1000:
        hasil=katakan(n/100)+" ratus "+katakan(n%100)
    elif n<2000:
        hasil="seribu "+katakan(n-1000)
    elif n<1000000:
        hasil=katakan(n/1000)+" ribu "+katakan(n%1000)
    elif n<1000000000:
        hasil=katakan(n/1000000)+" juta "+katakan(n%1000000)
    return hasil
```

Soal Nomor 14

```
print ("Nomor 14")
def formatRupiah(a):
    b=str(a)
    c=""
    i = -1
    while i>= -len(b):
        if((i+1)%3==0 and (i+1)!=0):
            c="."+c
        c=b[i]+c
        i-=1
    return "Rp "+c
print(formatRupiah(30000000))
```

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