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1.

File Edit Format Run Options Window	File Edit Shell Debug Options Window Help
<pre>def cetakSiku(): for i in range(5): for j in range(i+1): print("*", end= ' ') print() return(i) cetakSiku()</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 tel)] on win32 Type "help", "copyright", "credits" or " >>> = RESTART: C:\Users\GALIH\Downloads\Comp \MODUL_1\1.py * ** *** **** ***** >>> </pre>

2.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>def gambarlahPersegiEmpat(a,b): for i in range(a): if i == 0 or i == a-1: print("@"*b) else: print ("@"+" "*(b-2)+"@")</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 tel)] on win32 Type "help", "copyright", "credits" or " >>> = RESTART: C:\Users\GALIH\Downloads\Comp \MODUL_1\2.py >>> gambarlahPersegiEmpat(4,5) @@@@@ @ @ @ @ @@@@@ >>></pre>

3.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre> vokal = "aiueoAIUEO" def jumlahHurufVokal(x): hrfVokal = 0 jmlHuruf = len(x) for i in x: if i in vokal: hrfVokal = hrfVokal+1 print(jmlHuruf, ",", hrfVokal) def jumlahHurufKonsonan(x): hrfkonsonan = 0 jmlHuruf = len(x) for i in x: if i not in vokal: hrfkonsonan = hrfkonsonan+1 print(jmlHuruf, ",", hrfkonsonan) </pre>	<pre> Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 202 tel)] on win32 Type "help", "copyright", "credits" or "licen >>> = RESTART: C:\Users\GALIH\Downloads\Compresse \MODUL_1\3ab.py >>> k = jumlahHurufVokal("Surakarta") 9, 4 >>> k = jumlahHurufKonsonan("Surakarta") 9, 5 >>> </pre>

4.

File Edit Format Run Options	File Edit Shell Debug Options Window
<pre> def rerata(b): jml = 0 for i in b: jml += i return(jml/len(b)) </pre>	<pre> Python 3.8.2 (tags/v3.8.2:7b3ab59 tel)] on win32 Type "help", "copyright", "credit >>> = RESTART: C:\Users\GALIH\Downloa \MODUL_1\4.py >>> rerata([1,2,3,4,5]) 3.0 >>> </pre>

5.

```
File Edit Format Run Options Window Help
from math import sqrt as sq
def apakahPrima(n):
    n = int(n)
    assert n>=0
    primaKecil = [2,3,5,7,11]
    bukanPrKecil = [0,1,4,6,8,9,10]
    if n in primaKecil:
        return True
    elif n in bukanPrKecil:
        return False
    else:
        for i in range(2,int(sq(n))+1):
            if n%i ==0:
                return False
            break
        else:
            return True
```

```
File Edit Shell Debug Options Window Help
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb
tel)] on win32
Type "help", "copyright", "credits" or
>>>
= RESTART: C:\Users\GALIH\Downloads\Co
\MODUL_1\5.py
>>> apakahPrima(17)
False
>>> apakahPrima(97)
False
>>> apakahPrima(123)
False
>>>
```

6.

File Edit Format Run Options Window Help	File Edit Shell Debug Opt
from math import sqrt as sq	962 False
def apakahPrima(n):	963 False
n = int(n)	964 False
assert n >= 0	965 False
primaKecil = [2,3,5,7,11]	966 False
bukanPrKecil = [0,1,4,6,8,9,10]	967 True
if n in primaKecil:	968 False
return True	969 False
elif n in bukanPrKecil:	970 False
return False	971 True
else :	972 False
for i in range (2, int(sq(n))+1) :	973 False
if n%i == 0:	974 False
return False	975 False
break	976 False
else :	977 True
return True	978 False
	979 False
for i in range (2,1001):	980 False
print(str(i)+" "+str(apakahPrima(i)))	981 False
	982 False
	983 True
	984 False
	985 False
	986 False
	987 False
	988 False
	989 False
	990 False
	991 True
	992 False
	993 False
	994 False
	995 False
	996 False
	997 True
	998 False
	999 False
	1000 False

7.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window
def faktorPrima(x):	Python 3.8.2 (tags/v3.8.2:7b3ab59
a = []	tel)] on win32
b = []	Type "help", "copyright", "credit
bil = x	>>>
for i in range(2, x+1):	== RESTART: C:\Users\GALIH\Downlo
prima = True	>>> faktorPrima(10)
for u in range(2, i):	[2, 5]
if i % u == 0:	>>> faktorPrima(120)
prima = False	[2, 2, 2, 3, 5]
if prima:	>>> faktorPrima(19)
a.append(i)	[19]
idx = 0	>>>
while bil > 1:	
try:	
if (bil % a[idx]) == 0:	
hasil = bil / a[idx]	
bil = hasil	
b.append(a[idx])	
else:	
idx = idx + 1	
except IndexError:	
break	
print(b)	

8.

File Edit Format Run Options Window	File Edit Shell Debug Options Window Help
<pre>def apakahTerkandung(a, b): return a in b</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 2020) on win32 Type "help", "copyright", "credits" or "quit()" >>> == RESTART: C:\Users\GALIH\Downloads\Python382\python.exe == >>> h = 'do' >>> k = 'Indonesia tanah air beta' >>> apakahTerkandung(h,k) True >>> apakahTerkandung('pusaka',k) False >>> </pre>

9.

File Edit Format Run Options Window Help	File Edit Shell Debug
<pre>for i in range(1, 101): if(i % 3) == 0 and (i % 5) == 0: i = "Python UMS" elif(i % 3) == 0: i = "Python" elif(i % 5) == 0: i = "UMS" print(i)</pre>	<pre>62 Python 64 UMS Python 67 68 Python UMS 71 Python 73 74 Python UMS 76 77 Python 79 UMS Python 82 83 Python UMS 86 Python 88 89 Python UMS 91 92 Python 94 UMS Python 97 98 Python UMS</pre>

10.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>from math import sqrt as akar def selesaikanABC(a,b,c): a = float(a) b = float(b) c = float(c) D = b**2 - 4*a*c if (D < 0): print("Determinan negatif. Persamaan tidak mempunyai akar real.") else: x1 = (-b + akar(D))/(2*a) x2 = (-b - akar(D))/(2*a) hasil = (x1,x2) return hasil</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) tel) on win32 Type "help", "copyright", "credits" or "license()" for more >>> = RESTART: C:\Users\GALIH\Downloads\Compressed\algotstruk- \MODUL_1\10.py >>> selesaikanABC(1,2,3) Determinan negatif. Persamaan tidak mempunyai akar real. >>> selesaikanABC(4,5,6) Determinan negatif. Persamaan tidak mempunyai akar real. >>> selesaikanABC(1,-5,6) (3.0, 2.0) >>></pre>

11.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>def apakahKabisat(n): if n%4==0: if n%100==0 and n%400==0: return True elif n%100==0 and n%400!=0: return False return True return False print(apakahKabisat(1896)) print(apakahKabisat(1897)) print(apakahKabisat(1900)) print(apakahKabisat(2000)) print(apakahKabisat(2004)) print(apakahKabisat(2100)) print(apakahKabisat(2400))</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) tel) on win32 Type "help", "copyright", "credits" or "license()" for more >>> = RESTART: C:\Users\GALIH\Downloads\Compressed\algotstruk- \MODUL_1\11.py True False False True True False True >>> </pre>

12.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>import random r = random.randint(1, 100) a = ""Coba Tebak sebuah angka bulat antara 1 sampai 100 yang saya simpan."" print(a) b = "Masukkan tebakan ke-" f = "> " c = 1 d = str(c) for i in range(1, 100): e = (b+d+f) a = int(input(e)) c += 1 d = str(c) if a < r: print("Itu terlalu kecil. Coba lagi.") elif a > r: print("Itu terlalu besar. Coba lagi.") elif a == r: print("Ya. Anda benar") break</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) tel) on win32 Type "help", "copyright", "credits" or "license()" for more >>> = RESTART: C:\Users\GALIH\Downloads\Compressed\algotstruk- \MODUL_1\12.py Coba Tebak sebuah angka bulat antara 1 sampai 100 yang saya simpan. Masukkan tebakan ke-1:> 50 Itu terlalu besar. Coba lagi. Masukkan tebakan ke-2:> 40 Itu terlalu besar. Coba lagi. Masukkan tebakan ke-3:> 30 Itu terlalu kecil. Coba lagi. Masukkan tebakan ke-4:> 35 Itu terlalu besar. Coba lagi. Masukkan tebakan ke-5:> 32 Itu terlalu kecil. Coba lagi. Masukkan tebakan ke-6:> 33 Itu terlalu kecil. Coba lagi. Masukkan tebakan ke-7:> 34 Ya. Anda benar >>> </pre>

13.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Window Help
<pre>def katakan(bil): angka = ["", "Satu ", "Dua ", "Tiga ", "Empat ", "Lima ", "Enam ", "Tujuh ", "Delapan ", "Sembilan ", "Sepuluh ", "Sebelas "] hasil = "" n = int(bil) if 0 <= n <= 11: hasil = angka[n] elif n < 20: hasil = katakan(n - 10) + "Belas" elif n < 100: hasil = katakan(n / 10) + "Puluh " + katakan(n % 10) elif n < 200: 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) elif n > 1000000000: hasil = "Maaf, program tidak membaca angka lebih dari Satu Milyar" return hasil</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v tel)] on win32 Type "help", "copyright", "credits" or "license()" for more info >>> == RESTART: C:\Users\GALIH\Downloads\Compressed\algostruk-master >>> katakan(3125750) 'Tiga Juta Seratus Dua Puluh Lima Ribu Tujuh Ratus Lima Puluh ' >>> </pre>

14.

File Edit Format Run Options Window Help	File Edit Shell Debug Options Win
<pre>def formatRupiah(n): y = str(n) if len(y) <= 3: return 'Rp ' + y else: p = y[-3:] q = y[:-3] return formatRupiah(q) + '.' + p</pre>	<pre>Python 3.8.2 (tags/v3.8.2:7b3 tel)] on win32 Type "help", "copyright", "cr >>> == RESTART: C:\Users\GALIH\Do >>> formatRupiah(1500) 'Rp 1.500' >>> formatRupiah(2560000) 'Rp 2.560.000' >>></pre>