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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 "1 >>> = 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
<pre> 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 for i in range (2,1001): print(str(i)+" "+str(apakahPrima(i))) </pre>							<pre> 962 False 963 False 964 False 965 False 966 False 967 True 968 False 969 False 970 False 971 True 972 False 973 False 974 False 975 False 976 False 977 True 978 False 979 False 980 False 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 </pre>				

7.

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

8.

File Edit Format Run Options Window Help	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 mc >>> = RESTART: C:\Users\GALIH\Downloads\Compressed\algostruk- \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 mc >>> = RESTART: C:\Users\GALIH\Downloads\Compressed\algostruk- \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 mc >>> = RESTART: C:\Users\GALIH\Downloads\Compressed\algostruk- \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 < 100000000: hasil = katakan(n / 1000000) + "Juta " + katakan(n % 1000000) elif n > 1000000000: hasil = "Maaf, program tidak membaca angka lebih dari Satu Miliar" 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>