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KELAS : AI-B

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1.

```
28.py > ...
1  n=int(input("Masukkan N = "))
2  for a in range(1,n+1):
3      for b in range(a,n+1):
4          print(a*b,end=" ")
5      print("")
```

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Windows PowerShell
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PS C:\Users\User\Documents>
Masukkan N = 4
0 1 2 3 4
0 2 4 6 8 10
0 3 6 9 12 15 18
0 4 8 12 16 20 24 28

2.

```
27.py > ...
1  x=int(input("x = "))
2  y=int(input("y = "))
3  a=[]
4  for n in range(x,y):
5      a.append(n)
6  a.pop(0)
7  toString = ' '.join(map(str, a))
8  print("Deret = ",toString)
9  print(f"Jumlah = {sum(a)}")
```

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PS C:\Users\User\Documents>
x = 4
y = 10
Deret = 5 6 7 8 9
Jumlah = 35

3.

```
26.py > ...
1 import random
2 angka = random.randint(1,10)
3 while True:
4     jawaban= int(input("Masukkan angka 1 - 10 : "))
5     if jawaban == angka:
6         print("Selamat Tebakkanmu benar")
7         break
8     else:
9         print("Tebakkanmu terlalu","Kecil" if jawaban < angka else "Besar")

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PS C:\Users\User\Documents
Masukkan angka 1 - 10 : 2
Tebakkanmu terlalu Kecil
Masukkan angka 1 - 10 : 4
Tebakkanmu terlalu Kecil
Masukkan angka 1 - 10 : 6
Tebakkanmu terlalu Kecil
Masukkan angka 1 - 10 : 9
Tebakkanmu terlalu Besar
Masukkan angka 1 - 10 : 7
Tebakkanmu terlalu Kecil
Masukkan angka 1 - 10 : 5
Tebakkanmu terlalu Kecil
Masukkan angka 1 - 10 : 3
Tebakkanmu terlalu Kecil
Masukkan angka 1 - 10 : 8
Selamat Tebakkanmu benar
```

4.

```
25.py > ...
1 def a(n):
2     if n==0:
3         return 1
4     else:
5         return n*a(n-1)
6 n=int(input("Masukkan angka : "))
7 print(f"{n}!= ",'*.join(map(str, range(n,0,-1)))'," = ",a(n))

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PS C:\Users\User\Documents\
Masukkan angka : 4
4!= 4*3*2*1 = 24
```

5.

```
24.py > ...
1  x=float(input("Masukkan bilangan real (x) : "))
2  y=int(input("Masukkan bilangan bulat (y) : "))
3  z=x**y
4  print(f"Jadi jumlah x pangkat y = {z}")

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PS C:\Users\User\Documents\
Masukkan bilangan real (x) : 8
Masukkan bilangan bulat (y) : 2
Jadi jumlah x pangkat y = 64.0
```

6.

1

```
23.py > ...
1  nilai = int(input("Jumlah nilai : "))
2  y = []
3  for n in range(1, nilai+1):
4      p = int(input(f"Nilai {n} : "))
5      y.append(p)
6  print(f"Total : {sum(y)}")
7  print(f"Rata-rata : {sum(y)/nilai}")

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PS C:\Users\User\Documents\
Jumlah nilai : 5
Nilai 1 : 2
Nilai 2 : 4
Nilai 3 : 6
Nilai 4 : 8
Nilai 5 : 10
Total : 30
Rata-rata : 6.0
```

7.

```

22.py > ...
1  nilai1 = float(input("Masukkan Nilai Awal : "))
2  suku_terakhir = int(input("Suku terakhir : "))
3  suku = int(input("Masukkan banyak suku : "))
4  rasio = float(input("Rasio : "))
5  for n in range(suku, suku_terakhir+1):
6      suku = nilai1*(rasio**(n-1))
7      print(suku)

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

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PS C:\Users\User\Documents\
Masukkan Nilai Awal : 4
Suku terakhir : 10
Masukkan banyak suku : 5
Rasio : 2
64.0
128.0
256.0
512.0
1024.0
2048.0

8.

```

21.py > ...
1  satuan = float(input("Masukkan Satuan : "))
2  harga = 800
3  print("-----")
4  print("|Satuan | Harga |")
5  print("-----")
6  for x in range(1, 6):
7      print(f"|{satuan*x} | {harga*x*satuan+(harga*satuan)}|")
8  print("-----")

```

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PS C:\Users\User\Documents\
Masukkan Satuan : 0.5

|Satuan | Harga |

0.5	800.0
1.0	1200.0
1.5	1600.0
2.0	2000.0
2.5	2400.0
