

Praktikum Individu 4 – Artificial Intelligence

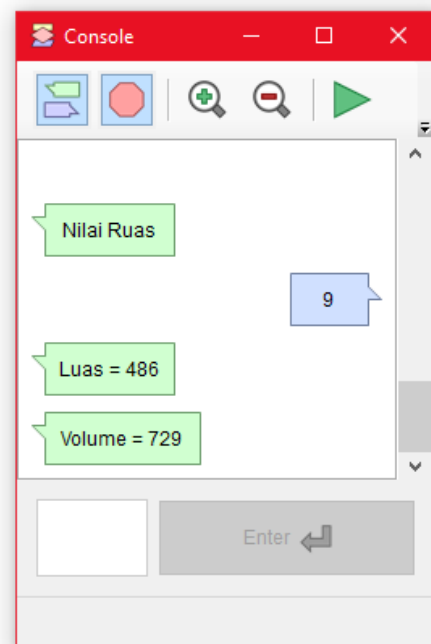
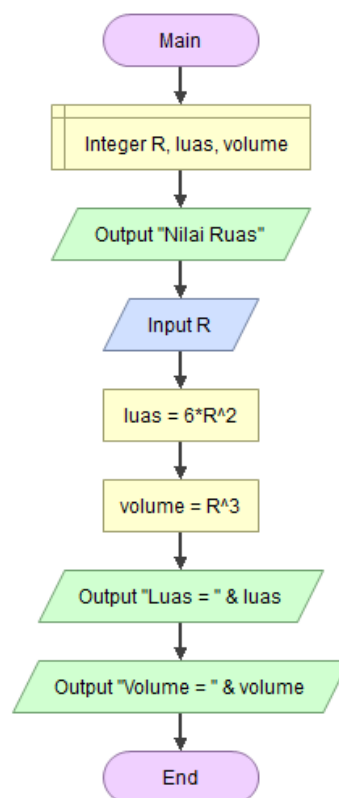
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Nim : 20.01.013.075

Kelas : Artificial Intelligence A >> Artificial Intelligence C

Bangun Ruang

- **Kubus**



```

1 # Kubus
2 print("\nKubus")
3 print("-----")
4 r = int(input("Nilai Ruas Kubus : "))
5 luas = 6 * r ** 2
6 volume = r ** 3
7 print("\nLuas = " + str(luas))
8 print("\nVolume = " + str(volume))
9 print("\n")

```

```

0 print("Nilai Ruas")
1 z = int(input())
2 luas = 6 * z ** 2
3 volume = z ** 3
4 print("Luas = " + str(luas))
5 print("Volume = " + str(volume))

```

PS E:\SMT 3\Artificial Intelligence\Assignment\Coding Assignment> python -u "e:\SMT 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang\Kubus.py"

Kubus

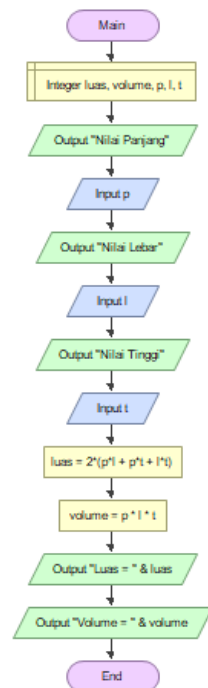
Nilai Ruas Kubus : 9

Luas = 486

Volume = 729

PS E:\SMT 3\Artificial Intelligence\Assignment\Coding Assignment>

- Balok



Console

Nilai Panjang

10

Nilai Lebar

6

Nilai Tinggi

5

Luas = 280

Volume = 300

Enter

```

1 # Balok
2 print("\nBalok")
3 print("-----")
4 p = int(input("Nilai Panjang Balok : "))
5 l = int(input("Nilai Lebar Balok : "))
6 t = int(input("Nilai (variable) t: "))
7 luas = 2 * (p*l + p*t + l*t)
8 volume = p * l * t
9 print("\nLuas = " + str(luas))
10 print("Volume = " + str(volume))
11 print("\n\n")
12
13
14
15
16
17

```

Terminal Output:

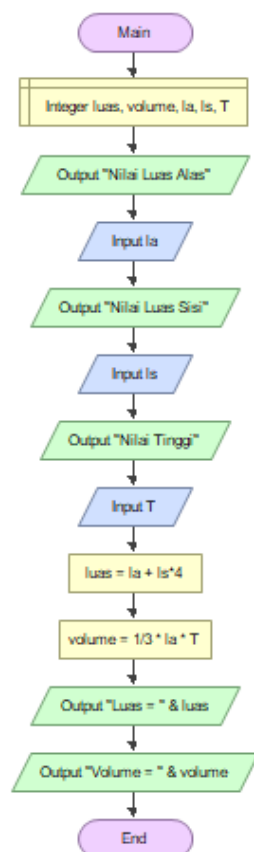
```

Balok
Nilai Panjang Balok : 10
Nilai Lebar Balok : 6
Nilai Tinggi Balok : 5

Luas = 280
Volume = 300

```

- **Limas Segiempat**



```

0 print("Nilai Luas Alas")
1 la = int(input())
2 print("Nilai Luas Sisi")
3 ls = int(input())
4 print("Nilai Tinggi")
5 t = int(input())
6 luas = la + ls + 4
7 volume = float(la) / 3 * la * t
8 print("Luas = " + str(luas))
9 print("Volume = " + str(volume))

```

```

1 # Limas Segiempat
2 print("\nLimas Segiempat")
3 print("-----")
4 la = int(input("Nilai Luas Alas : "))
5 ls = int(input("Nilai Luas Sisi : "))
6 t = int(input("Nilai Tinggi : "))
7 luas = la + ls * 4
8 volume = float(la) / 3 * la * t
9 print("\nLuas = " + str(luas))
10 print("Volume = " + str(volume))
11 print("\n\n")
12
13
14
15
16
17

```

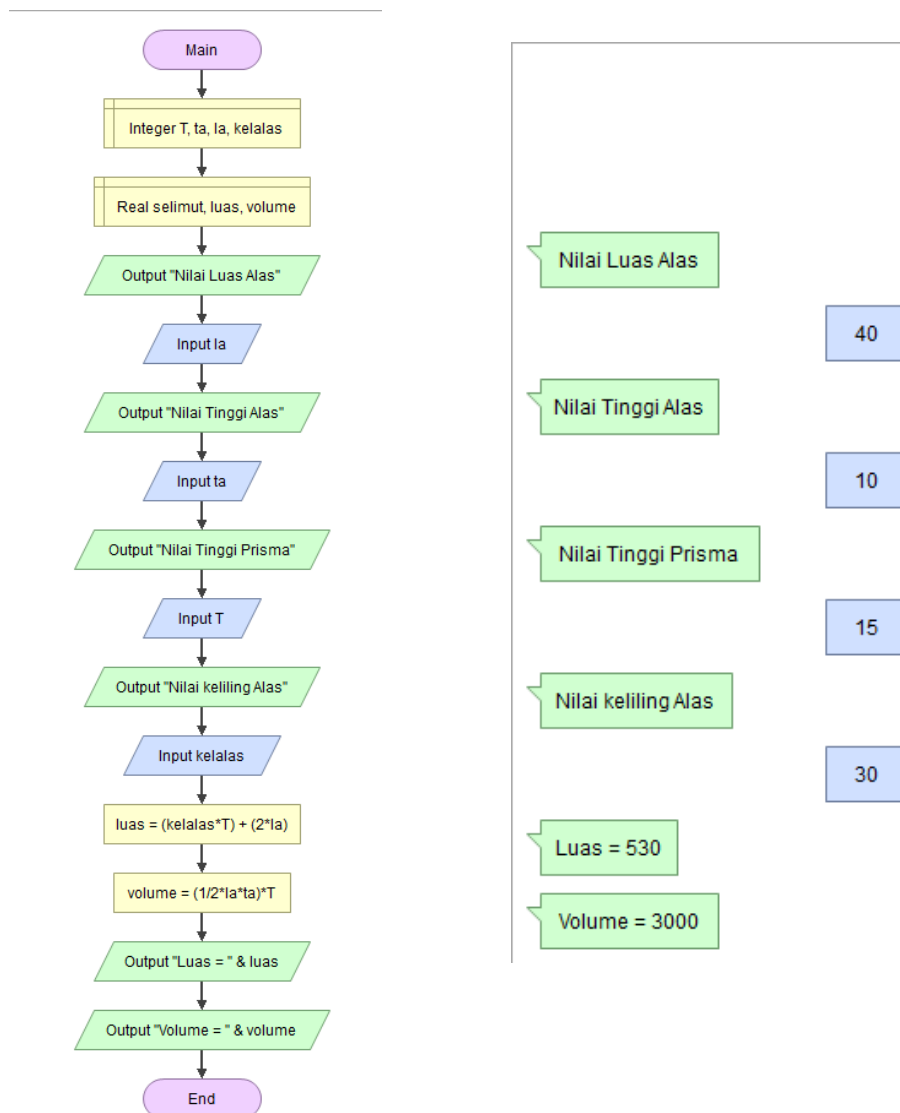
Terminal Output:

```

Limas Segiempat
Nilai Luas Alas : 36
Nilai Luas Sisi : 15
Nilai Tinggi : 4
Luas = 96
Volume = 48.0

```

- **Prisma Segitiga**



```

1 # Prisma Segitiga
2 print("\nPrisma Segitiga")
3 print("-----")
4 la = int(input("Nilai Luas Alas : "))
5 ta = int(input("Nilai Tinggi Alas : "))
6 t = int(input("Nilai Tinggi Prisma : "))
7 kelalas = int(input("Nilai keliling Alas : "))
8 luas = kelalas * t + 2 * la
9 volume = float(l) / 2 * la * ta * t
10 print("\nLuas = " + str(luas))
11 print("Volume = " + str(volume))
12
13 print("\n\n")
14
15
16
17
18

```

PS E:\SMF 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang> python -u "e:\SMF 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang\PrismaSegitiga.py"

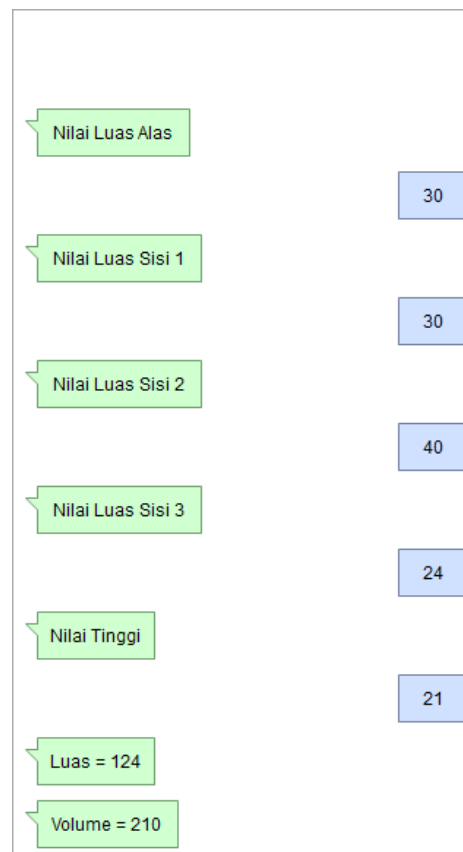
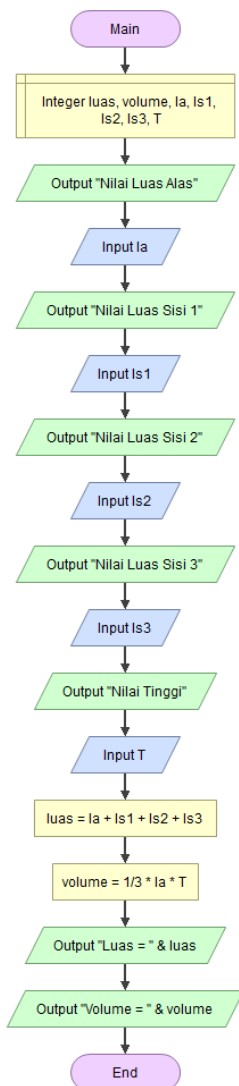
Prisma Segitiga

Nilai Luas Alas : 40
Nilai Tinggi Alas : 10
Nilai Tinggi Prisma : 15
Nilai keliling Alas : 30

Luas = 530
Volume = 3000.0

PS E:\SMF 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang>

• Limas Segitiga



```

1 # Limas Segitiga
2 print("\nLimas Segitiga")
3 print("-----")
4 print()
5 la = int(input("Nilai Luas Alas : "))
6 ls1 = int(input("Nilai Luas Sisi 1 : "))
7 ls2 = int(input("Nilai Luas Sisi 2 : "))
8 ls3 = int(input("Nilai Luas Sisi 3 : "))
9 T = int(input("Nilai Tinggi : "))
10 luas = la + ls1 + ls2 + ls3
11 volume = float(la / 3 * la * T)
12 print("\nLuas = " + str(luas))
13 print("Volume = " + str(volume))
14 print("\n\n")

```

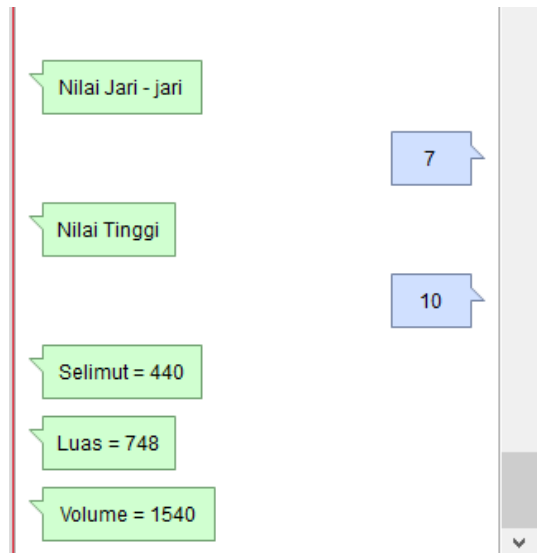
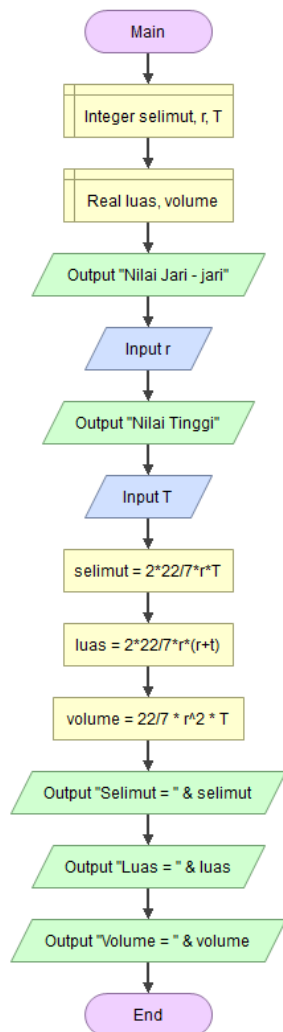
Terminal Output:

```

PS E:\SMT 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang> python -u "e:\SMT 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang\Limasegitiga copy.py"
Limas Segitiga
-----
Nilai Luas Alas : 30
Nilai Luas Sisi 1 : 30
Nilai Luas Sisi 2 : 40
Nilai Luas Sisi 3 : 24
Nilai Tinggi : 21
Luas = 124
Volume = 210.0
PS E:\SMT 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang>

```

- Tabung



```

1 # Limas Segitiga
2 print("\nLimas Segitiga")
3 print("-----")
4 print()
5 r = int(input("Nilai Jari - jari : "))
6 t = int(input("Nilai Tinggi : "))
7 selimut = float(2 * 22) / 7 * r * t
8 luas = float(2 * 22) / 7 * r * (r + t)
9 volume = float(22) / 7 * r ** 2 * t
10 print("\nSelimut = " + str(selimut))
11 print("Luas = " + str(luas))
12 print("Volume = " + str(volume))
13 print("\n\n")
14
15
16
17
18
19
20

```

```

1 # Limas Segitiga
2 print("\nLimas Segitiga")
3 print("-----")
4 print()
5 r = int(input("Nilai Jari - jari : "))
6 t = int(input("Nilai Tinggi : "))
7 selimut = float(2 * 22) / 7 * r * t
8 luas = float(2 * 22) / 7 * r * (r + t)
9 volume = float(22) / 7 * r ** 2 * t
10 print("\nSelimut = " + str(selimut))
11 print("Luas = " + str(luas))
12 print("Volume = " + str(volume))
13 print("\n\n")
14
15
16
17
18
19
20

```

```

PS E:\SMK 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang> python -u "e:\SMK 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang\Tabung.py"

Limas Segitiga
-----

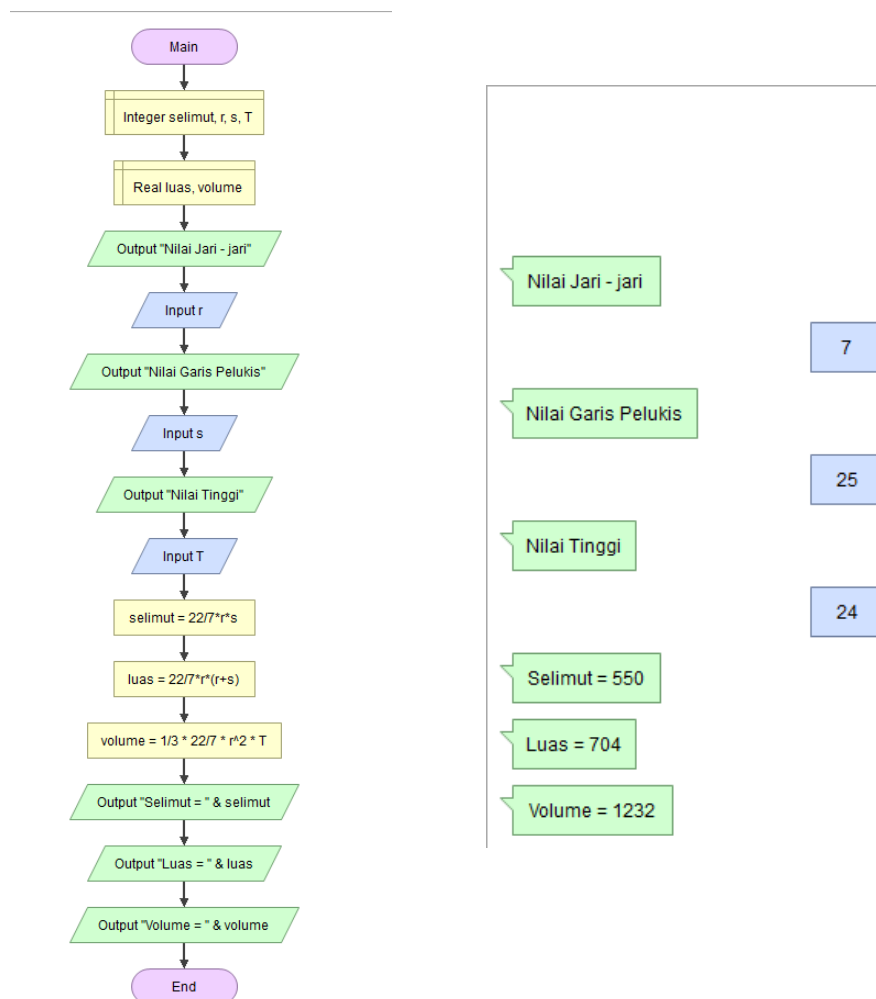
Nilai Jari - jari : 7
Nilai Tinggi : 10

Selimut = 440.0
Luas = 748.0
Volume = 1540.0

PS E:\SMK 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang>

```

- Kerucut



```

0 print("Nilai Jari - jari")
1 r = int(input())
2 print("Nilai Garis Pelukis")
3 s = int(input())
4 print("Nilai Tinggi")
5 t = int(input())
6 selimut = float(22) / 7 * r * s
7 luas = float(22) / 7 * r * (r + s)
8 volume = float(1) / 3 * 22 / 7 * r ** 2 * t
9 print("Selimut = " + str(selimut))
10 print("Luas = " + str(luas))
11 print("Volume = " + str(volume))

```

```

1 # Limas Segiempat
2 print("\nKerucut")
3 print("-----")
4 r = int(input("Nilai Jari - jari : "))
5 s = int(input("Nilai Garis Pelukis : "))
6 t = int(input("Nilai Tinggi : "))
7 selimut = float(22) / 7 * r * s
8 luas = float(22) / 7 * r * (r + s)
9 volume = float(1) / 3 * 22 / 7 * r ** 2 * t
10 print("\nSelimut = " + str(selimut))
11 print("Luas = " + str(luas))
12 print("Volume = " + str(volume))
13 print("\n\n")

```

PS E:\SMI 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang> python -u "e:\SMI 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang\Kerucut.py"

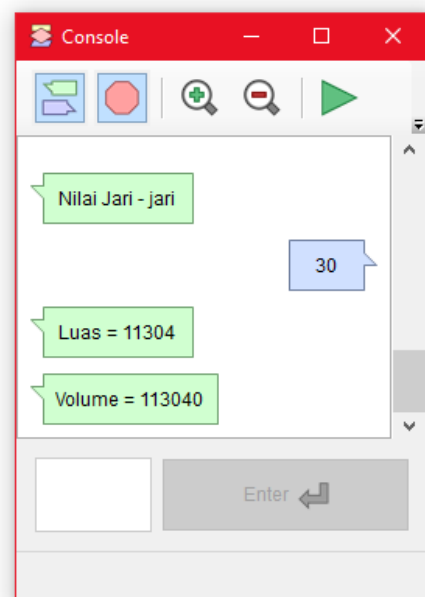
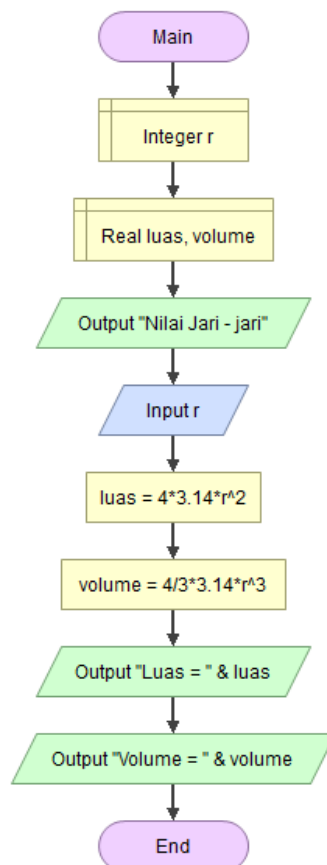
Kerucut

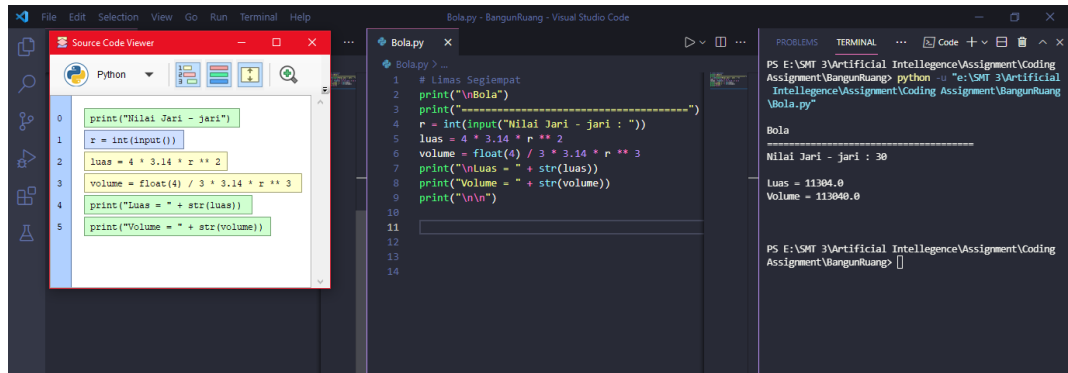
Nilai Jari - jari : 7
Nilai Garis Pelukis : 25
Nilai Tinggi : 24

Selimut = 550.0
Luas = 704.0
Volume = 1232.0

PS E:\SMI 3\Artificial Intelligence\Assignment\Coding Assignment\BangunRuang>

- Bola





Terima Kasih