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# Task 03

## Code

clc

clear all

close all

a=5^2

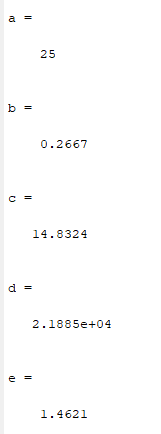
b=(5+3)/(5\*6)

c=sqrt(4+6^3)

d=9+6/12+7\*5^(3+2)

e=1+5\*3/6^2 + 2^(2-4)\*1/5.5

## Output



# Task 04

## Code

clc

clear all

close all

% a.

r = 5;

area\_a = pi\*r^2

% b.

r = 10;

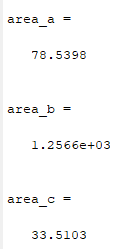
area\_b = 4\*pi\*r^2

% c.

r = 2;

area\_c = 4/3\*pi\*r^3

## Output



# Task 05

## Code

% a.

edge = 5;

area = edge^2

% b

edge = 10;

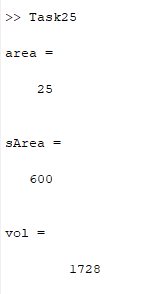
sArea = 6 \* edge^2

% c

edge = 12;

vol = edge^3

## Output



# Task 06

## Code

clc

clear all

% a)

rs=10;

h=15;

d=1;

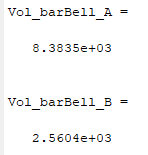
r=d/2;

Vol\_barBell\_A=2\*(((4/3)\*pi\*rs^3))+(pi\*r^3\*h)

% b)

Vol\_barBell\_B=2\*4\*pi\*(rs^2) + 2\*pi\*r\*h

## Output



# Task 07

## Code

clc

clear all

P=220;

n=2;

V=1;

a=5.536;

b=0.03049;

R=0.08314472;

T1=(P\*V)/(n\*R)

t1=(n^2\*a)/(V^2);

t2=(V-(n\*b));

T2=((P+t1)\*t2)/(n\*R)

## Output

