# SHAPHAN FRANCIS ZIRRA

# COMPUTER ENGINEERING

# 17/ENG02/028

## CODE

commandwindow

clc

close all

syms x

syms y

syms z

s = x^2\*y\*z^3+x\*y^2\*z^2

g = gradient (s, [x, y, z])

subs(g, [x, y, z],[1, 3, 2])

## OUTPUT

s =

 x^2\*y\*z^3 + x\*y^2\*z^2

g =

 y^2\*z^2 + 2\*x\*y\*z^3

 x^2\*z^3 + 2\*y\*x\*z^2

 3\*x^2\*y\*z^2 + 2\*x\*y^2\*z

ans =

 84

 32

 72