**AZANOR OGHENETEJIRI ANTHONY**

**17/ENG07/006**

**PETROLEUM ENGINEERING**

**ENG282 ASSIGNMENT 3**

Commandwindo

clear

clc

close all

syms x y z i j k

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

a=diff(phi,x)

b = diff(phi,y)

c= diff(phi,z)

x= 1 ;y=3;z=2

an=subs(a)

bn=subs(b)

cn= subs(c)

ann= an\*i

bnn=bn\*j

cnn = cn\*k

grad(phi)= ann + bnn + cnn