DIGITAL ASSESSMENT – 1

Course name: Calculus for Engineers
Course Code: MAT1011
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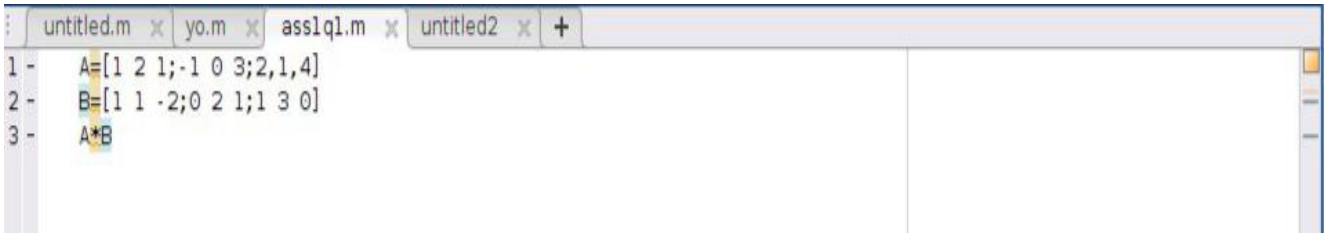
Registration No.: 18BIT0272
Submission Date: 27.08.2018
Slot: L5+L6

1. Write a MATLAB code to find the product of the matrices

$$A=\begin{bmatrix}1 & 2 & 1\\ -1 & 0 & 3\\ 2 & 1 & 4\end{bmatrix},\ B=\begin{bmatrix}1 & 1 & -2\\ 0 & 2 & 1\\ 1 & 3 & 0\end{bmatrix}$$ and execute it.

CODE:



OUTPUT:

```
>> ass1q1

A =

     1     2     1
    -1     0     3
     2     1     4


B =

     1     1    -2
     0     2     1
     1     3     0


ans =

     2     8     0
     2     8     2
     6    16    -3
```

2. Write a MATLAB code for plotting $Sin\,x$, $Cos\,x$ in the interval $[0,\ 2\pi]$ to display in the same window and execute it.

CODE:

untitled.m | yo.m | ass1q1.m | untitled2 | ass1q2.m

```
1 -    x=[0:0.1:2*pi];
2 -    y=sin(x);
3 -    g=cos(x);
4 -    plot(x,y,x,g,'.-'),legend('sin(x)','cos(x)')
```

OUTPUT: