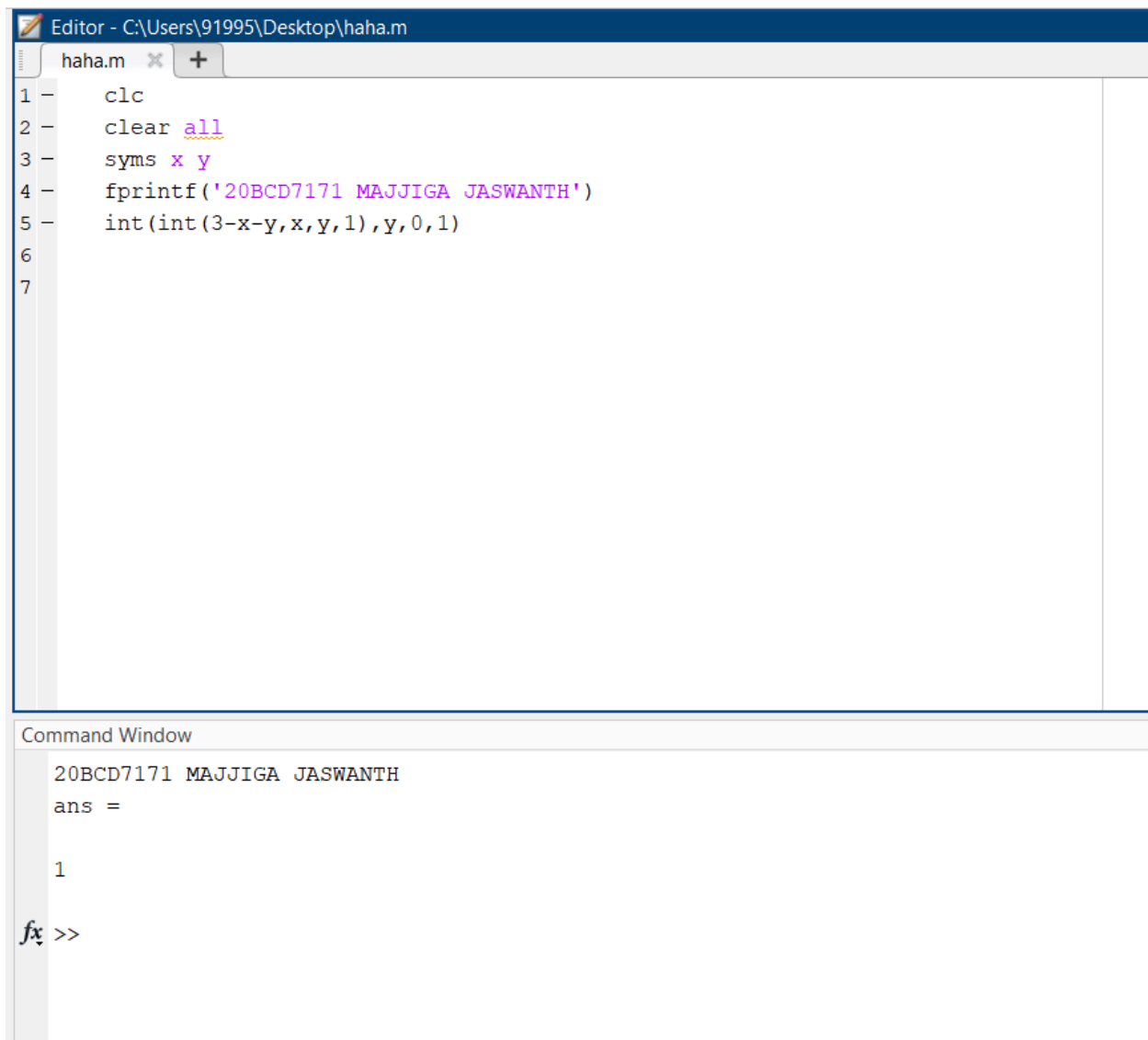


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Code1

A screenshot of the MATLAB environment. The top window is the 'Editor' showing a script named 'haha.m' located at 'C:\Users\91995\Desktop\haha.m'. The script contains five lines of code: 'clc', 'clear all', 'syms x y', 'fprintf('20BCD7171 MAJJIGA JASWANTH')', and 'int(int(3-x-y,x,y,1),y,0,1)'. The bottom window is the 'Command Window', which displays the output of the script: '20BCD7171 MAJJIGA JASWANTH', 'ans =', and '1'. The Command Window prompt is 'fx >>'.

```
Editor - C:\Users\91995\Desktop\haha.m
haha.m
1 -   clc
2 -   clear all
3 -   syms x y
4 -   fprintf('20BCD7171 MAJJIGA JASWANTH')
5 -   int(int(3-x-y,x,y,1),y,0,1)
6
7

Command Window
20BCD7171 MAJJIGA JASWANTH
ans =

1
fx >>
```

Code 2

```
1 - clc
2 - clear all
3 - syms x y z
4 - fprintf('20BCD7171 MAJJIGA JASWANTH')
5 - int(int(int(1,z,(x^2)+3*(y^2),8-(x^2)-(y^2)),...
6     x,-sqrt(4-2*(y^2)),sqrt(4-2*(y^2))),y,-sqrt(2),sqrt(2))
```

Command Window

20BCD7171 MAJJIGA JASWANTH

ans =

$8\pi^{1/2}$

fx >>

Code 3

```
1 -   clc
2 -   clear all
3 -   syms x y z
4 -   fprintf('20BCD7171 MAJJIGA JASWANTH')
5 -   volume = int(int(int(1,x,0,2),y,0,2),z,0,2)
6 -   avg = (1/volume)*int(int(int(x*y*z,z,0,2),y,0,2),x,0,2)
```

Command Window

```
20BCD7171 MAJJIGA JASWANTH
volume =

8

avg =

1
```