NAME: PRATHAPANI SATWIKA REG.NO: 20BCD7160

EXPERIMENT NO. 3 -APPLICATIONS TO INTEGRAL CALCULUS

```
1.
1 - clc
2 - clear all
3 - syms x y
4 - fprintf('20BCD7160 Prathapani Satwika')
5 - int(int(3-x-y,x,y,1),y,0,1)
```

## Command Window

```
20BCD7160 Prathapani Satwika
ans =

1

fx >> |
```

2.

## Command Window

```
20BCD7160 Prathapani Satwika

ans =

8*pi*2^(1/2)

fx >>
```

**3.** 

```
1 - clc
2 - clear all
3 - syms x y z xyz
4 - fprintf('20BCD7160 Prathapani Satwika')
5 - vol=int(int(int(1,z,0,2),y,0,2),x,0,2)
6 - avg=int(int(int(x*y*z,z,0,2),y,0,2),x,0,2)
```

```
Command Window

20BCD7160 Prathapani Satwika
vol =

8

avg =

8

fx >>
```