

```
clc;
clear;
r=[0 0.12 0.24 0.36 0.49 0.62 0.79 0.86 0.93 1];
rho=[ 6 5.81 5.14 4.29 3.39 2.7 2.19 2.1 2.04 2];
r=r/10;
a= rho*4*pi.*r.^2;
m=trapz(r,a);
V = 4/3*pi*max(r).^3;
Density=m./V;
fprintf('Mass is : %f m\n , Density is : %f Density\n',m,Density)
```

```
Mass is : 0.010591 m
, Density is : 2.528405 Density
```

