

datascience_assignment_1.4

July 11, 2018

0.1 Program to calculate volume of a sphere with diameter 12 cm

0.2 Solution

- Write a function `get_volume` which takes radius as input and return volume using formula for volume
- Get diameter `d`, divide by 2 to get radius and then call `get_volume` to get volumen and print the result

In [5]: `import math`

```
# The function get_volume calculate volume of a given radius r
def get_volume(r):
    return 4./3. * math.pi * r ** 3

# Input diameter d
d = 12.
r = d/2.
# Calculate volume V
V= get_volume(r)
print("Volume=" + str(V))
```

Volume=904.7786842338603