# C Program Assignment

JUSTICE KIPTOO, PA106/G/28715/25

Exercise:  
  
The volume of a cylinder is given by the formula below. Write a C program to find the volume and surface area of the given cylinder. Prompt the user to enter radius and height. (use the formulae provided below) (6 marks)  
  
Volume = πr²h  
Surface Area = 2πr² + 2πrh

#include <stdio.h>  
#define PI 3.14159  
  
int main() {  
 double radius, height, volume, surfaceArea;  
  
 // Print the title  
 printf("JUSTICE KIPTOO, PA106/G/28715/25\n\n");  
  
 // Prompt user input  
 printf("Enter the radius of the cylinder: ");  
 scanf("%lf", &radius);  
  
 printf("Enter the height of the cylinder: ");  
 scanf("%lf", &height);  
  
 // Calculations  
 volume = PI \* radius \* radius \* height;  
 surfaceArea = 2 \* PI \* radius \* radius + 2 \* PI \* radius \* height;  
  
 // Output  
 printf("\nVolume of the cylinder = %.2lf\n", volume);  
 printf("Surface area of the cylinder = %.2lf\n", surfaceArea);  
  
 return 0;  
}