Programing Fundamental (LAB)

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Roll no : (23P-0559)

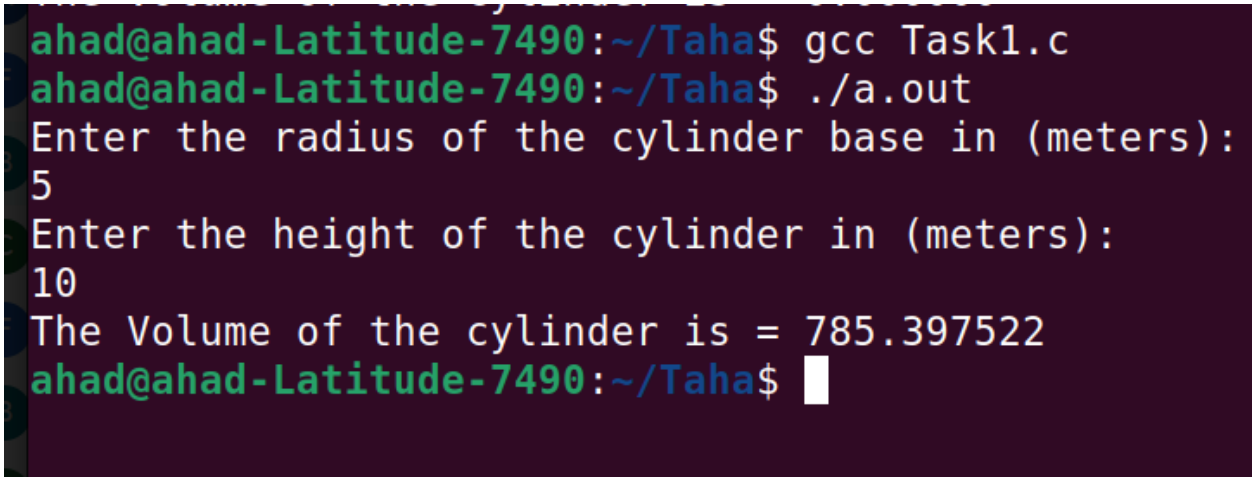
Quizz : 01

Question no : 01

Input:

```
#include<stdio.h>

int main()
{
	float pi = 3.14159;
	float v,r,h;
	// Enter the radius and height of the cylinder in meters
	printf("Enter the radius of the cylinder base in (meters):\n");
	scanf("%f",&r);

	printf("Enter the height of the cylinder in (meters):\n");
	scanf("%f",&h);

	// calculate the volume

	v = 3.14159*(r*r)*h;
	// print the volume
	printf("The Volume of the cylinder is = %f\n",v);

	  return 0;
	  }
```

Output:

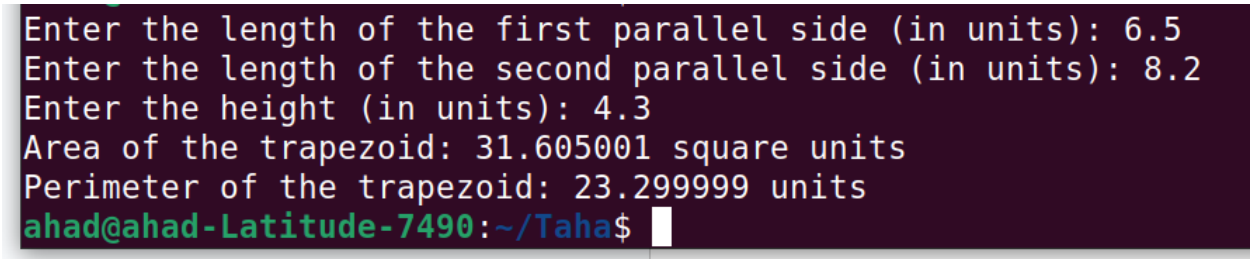

ahad@ahad-Latitude-7490:~/Taha$ gcc Task1.c
ahad@ahad-Latitude-7490:~/Taha$ ./a.out
Enter the radius of the cylinder base in (meters):
5
Enter the height of the cylinder in (meters):
10
The Volume of the cylinder is = 785.397522
ahad@ahad-Latitude-7490:~/Taha$

Question no : 02

Input:

```
#include <stdio.h>

int main() {
    float Side1, Side2, height, area, perimeter;

    // Enter the lengths of the parallel sides and height
    printf("Enter the length of the first parallel side (in units): ");
    scanf("%f", &Side1);

    printf("Enter the length of the second parallel side (in units): ");
    scanf("%f", &Side2);

    printf("Enter the height (in units): ");
    scanf("%f", &height);

    // Calculate the area of the trapezoid
    area = 0.5 * (Side1 + Side2) * height;

    // Calculate the perimeter of the trapezoid
    perimeter = Side1 + Side2 + 2 * height;

    // Display the results in units
    printf("Area of the trapezoid: %f square units\n", area);
    printf("Perimeter of the trapezoid: %f units\n", perimeter);

    return 0;
}
```

Output:


Enter the length of the first parallel side (in units): 6.5
Enter the length of the second parallel side (in units): 8.2
Enter the height (in units): 4.3
Area of the trapezoid: 31.605001 square units
Perimeter of the trapezoid: 23.299999 units
ahad@ahad-Latitude-7490:~/Taha$