**Placement Series, Day-2**

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Answers:

1. B) Sister of father-in-law
2. C) 1941
3. Code in C to find out the volume of a cone having a height(h) and radius(r):

#include <stdio.h>

#include <math.h>

*int* main()

{

*float* h, r, volume;

    // Input height and radius from the user

    printf("Enter the height of the cone: ");

    scanf("%f", &h);

    printf("Enter the radius of the base of the cone: ");

    scanf("%f", &r);

    // Check if the height and radius are non-negative

    if (h < 0 || r < 0)

    {

        printf("Height and radius must be non-negative.\n");

    }

    else

    {

        //volume of the cone formula: V = (1/3) \* π \* r^2 \* h

        volume = (1.0/3.0)\*3.14\*pow(r, 2) \* h;

        printf("The volume of the cone is: %.2f cubic units\n", volume);

    }

    return 0;

}

1. (c) Dear Mr. Smith:
2. b. 11