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Section: D

Task 01

Volume Calculations

1) Display “Equatorial_Radius”
2) Input equatorial radius
3) Display “Shorter_polar_radius”
4) Input shorter polar radius
5) Display “Longer_polar_radius”
6) Input longer polar radius
7) Set V=((2*pi)/3)*(a*a*(b+c))
8) Display "Volume of eggshell", V;

EXPLANATION:

In this task we have to find volume of of eggshell, for that first we have to input equatorial radius from the user through variable name equatorial radius ;then I INPUT SHOTER Polar radius from the user .then last we input long polar radius through users. finally find the volume through through formula V=((2*pi)/3)*(a*a*(b+c)).

Task 02

Surface Area

1) Display "Major Axis"
2) Input major axis
3) Display "Minor Axis"
4) Input Minor axis
5) set e=(1-(b*b)/(a*a))^(1/2)
6) Display "Eccentricity" ,e;
7) set X=(2*pi*b*b)+((2*pi*a*b*arcsin*e)/e)
8) Display "Surface area of an egg", X;

EXPLANATION:

Firstly ,i input major axis from the user that is name through variable a. Then, I input minor axis from the user through the variable name as b. Then I found the eccentricity through the formula provided such as e=(1-(b*b)/(a*a))^(1/2) than, according to the question I have to find surface area of egg. i found this through the formula such as (2*pi*b*b)+((2*pi*a*b*arcsin*e)/e).

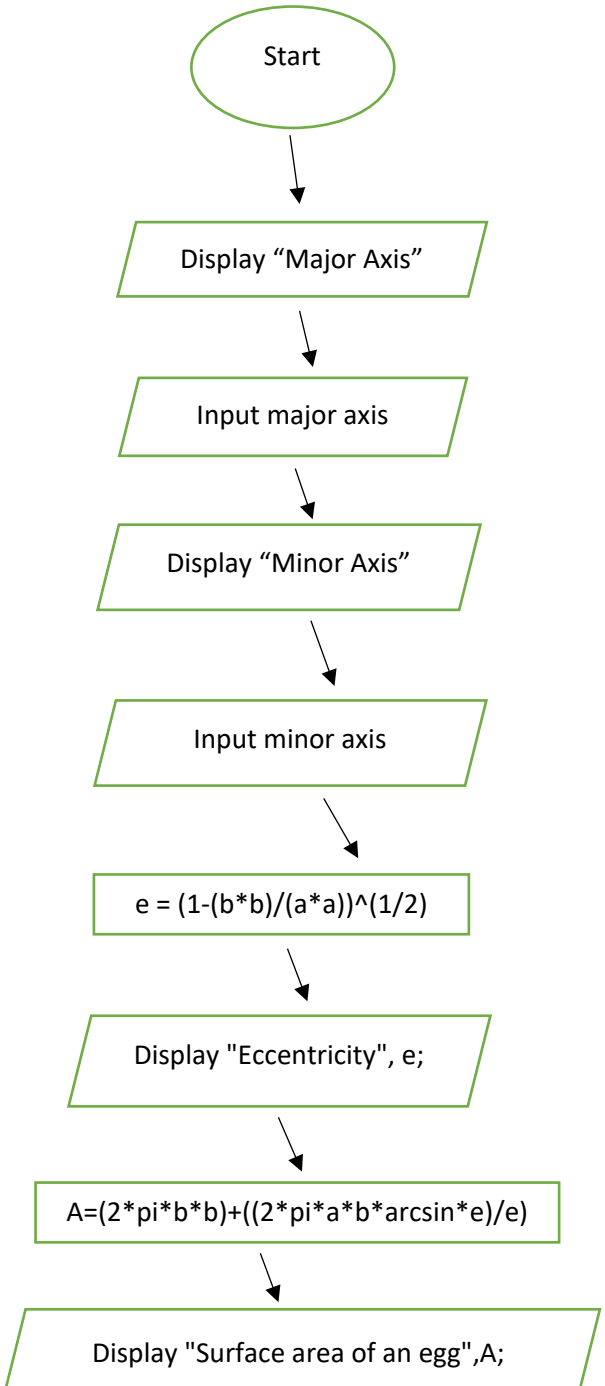
Data Types

1) int a,b

2) const float pi=3.1416

3) float e

4) float A



Task 03

Number of Eggs

1) Display "Area of image"

2) Input area of image

3) Set area of eggshell = (Area of image*25.77)/100

4) Set No of eggs = Area of eggshells/Area of egg

5) Display "No of Eggs", no of eggs;

Task 04

Total Volume of Eggyolk

1) set V=((2*pi)/3)*(a*a(b+c))

2) Display "Volume of eggshell", V;

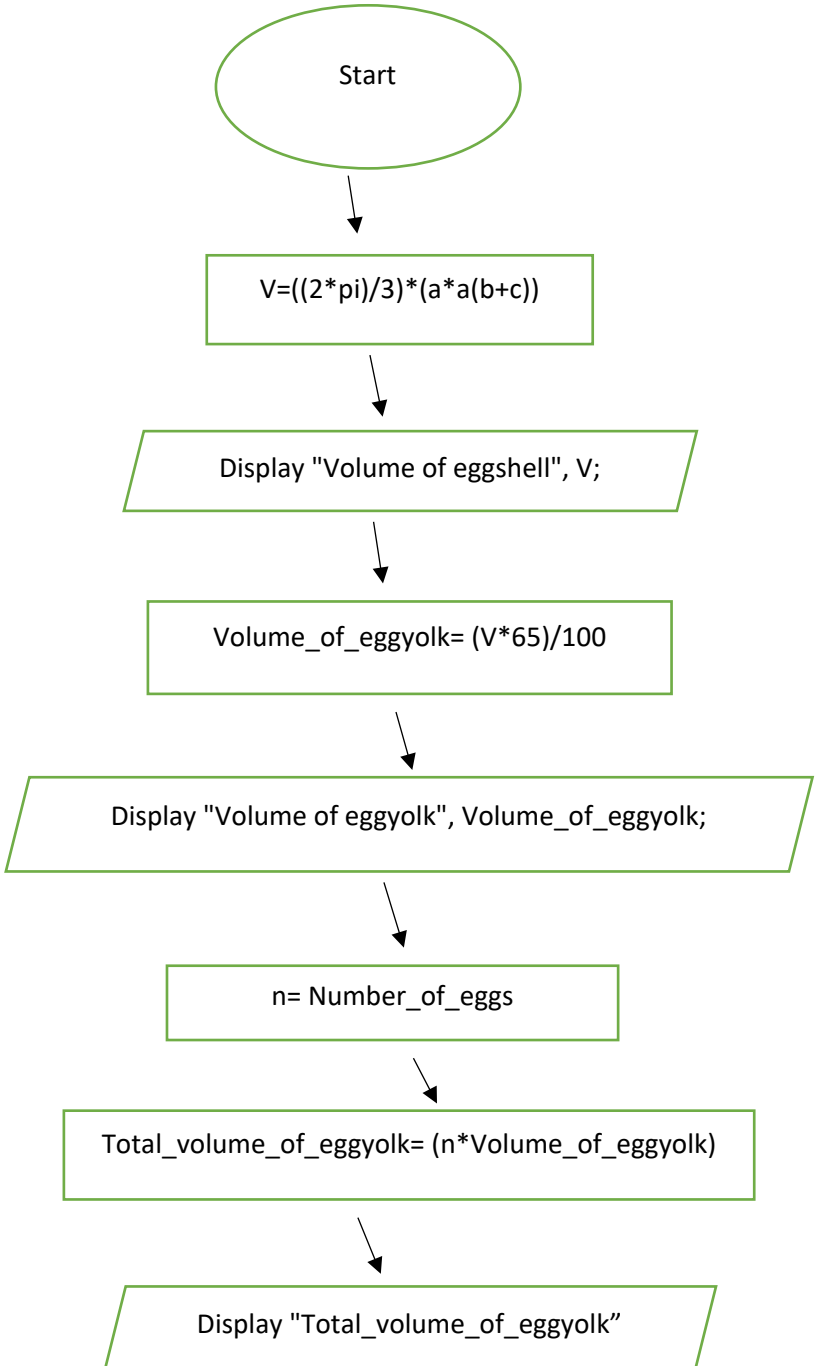
3) set Volume_of_eggyolk= (V*65)/100

4) Display "Volume of eggyolk", Volume_of_eggyolk;

5) set n= Number_of_eggs

6) set Total_volume_of_eggyolk= (n*Volume_of_eggyolk)

7) Display "Total_volume_of_eggyolk”



EXPLANATION:

First I have calculated the volume of eggshell through the formula given in the first question such as v=(2*pi/3)*(a*a)(b+c),then find volume of the eggyolk that was 65 percent of volme of egg. i use simple formula such as(v*65)/100.after this i assign n same value as no of eggs i found in task3 .finally I found total volume of of eggyolk by multiplying numbers of eggs with volume of eggyolk to find total volume of eggyolk**.**