Subject: Programming and Problem-Solving

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Batch: K3

ASSIGNMENT NO: 1-B

AIM: Write an algorithm and draw a flowchart to Calculate the volume and

area of sphere using the formulas V=4/3\* Pi\*r3 and A=4\*pi\*r2

where r is radius of square of the sphere.

OBJECTIVE:

1. To understand importance of flowchart for any programming model.

2. To learn simple flowchart symbols and arrows to define relationships.

3. To understand and develop visual representations of the flow of data.

THEORY:

1)Flowchart to Calculate the volume and area of sphere

2)Algorithm to Calculate the volume and area of sphere

Flowchart to calculate the Volume of Sphere

START

INPUT R

V=(4/3).pi.r^3

DISPLAY V

STOP

Algorithm to calculate volume of sphere:

Step1) Start

Step2) Input R

Step3) Calculate the volume of sphere using the formula V=4/3\* Pi\*r3

Step4) Display the value of V

Step5) Stop

Flowchart to calculate Area of Sphere

START

INPUT R

A=4\*pi\*R^2

DISPLAY A

STOP

Algorithm to calculate Area of sphere:

Step1) Start

Step2) Input R

Step3) Calculate the Area of sphere using the formula A=4\*pi\*r2

Step4) Display the value of A

Step5) Stop

PLATFORM: 64 –bit Windows 10.

INPUT: Any programming model.

OUTPUT: Respective flowchart

CONCLUSION: Thus, learn formalized graphic representation of a given

logical sequence.