Flowchart:- // prepared by Nisarg

A diagram of a work flow

Description automatically generated

Hierarchy:-

Assignment1

| -wall\_area()

|-door\_area()

|-window\_area()

|-main

Code:-

public class Assignment1 {

// Coded by Krishna

public static double wall\_area(Scanner sc)

{

System.out.println("Enter height,width of wall in feet and Number of walls");

double wall\_height=sc.nextDouble();

double wall\_width=sc.nextDouble();

int walls=sc.nextInt();

return wall\_height\*wall\_width\*walls;

}

public static double door\_area(Scanner sc)

{

System.out.println("Enter height,width of door in feet and Number of door");

double door\_height=sc.nextDouble();

double door\_width=sc.nextDouble();

int doors=sc.nextInt();

return door\_height\*door\_width\*doors;

}

public static double window\_area(Scanner sc)

{

System.out.println("Enter height,width of door in feet and number of windows");

double window\_height=sc.nextDouble();

double window\_width=sc.nextDouble();

int windows=sc.nextInt();

return window\_height\*window\_width\*windows;

}

public static final int LabourWorkHours=8;

public static final int LabourWorkCost=20;

public static final int PerGalloons=300;

// coded by Vedant

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

double wall\_area=wall\_area(sc);

double door\_area=door\_area(sc);

double window\_area=window\_area(sc);

double area\_color=wall\_area-door\_area-window\_area;

System.out.println("Square feet of Walls = " + wall\_area);

System.out.println("Square feet of Doors = " + door\_area);

System.out.println("Square feet of Windows = " + window\_area);

System.out.println("Area to be painted = " + area\_color);

System.out.println("Price of paint per galloon?");

int paint\_cost=sc.nextInt();

int paint\_req=(int)(Math.round(area\_color / PerGalloons));

int lab\_hrs= (paint\_req \* LabourWorkHours);

double lab\_cost=lab\_hrs\*LabourWorkCost;

double cost=paint\_req\*paint\_cost;

System.out.println("Price of painting = " + cost);

double totalpaintcost=lab\_cost+cost;

System.out.println("Number of galloons = " + paint\_req);

System.out.println("Hours of painting = " + lab\_hrs);

System.out.println("Cost of painting per galloon = " + paint\_cost);

System.out.println("Labour cost = " + lab\_cost);

System.out.println("Total cost of painting = " + totalpaintcost);

}

}

Output

A white background with black dots

Description automatically generated

A computer screen shot of a computer

Description automatically generated