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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);
```

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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);
}
```

}

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cd C:\Users\krish\Desktop\Krishna\Study\Algorithm\Assignment\Assignment\Assignmentl; JAVA_HOME=C:\\Users\krish\\Desktop\Krishna\Study\\Algorithm\\jdk-23 cmd /c "\"C:\\Progr
Enter height, width of wall in feet and Number of walls
8 10 8
Enter height, width of door in feet and Number of door
8 3 4
Enter height, width of door in feet and number of windows
2 1 5
Square feet of Walls = 640.0
Square feet of Doors = 96.0
Square feet of Windows = 10.0
Area to be painted = 534.0
Price of paint per galloon?
Price of painting = 150.0
Number of galloons = 2
Hours of painting = 16
Cost of painting per galloon = 75
Labour cost = 320.0
Total cost of painting = 470.0
```

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Output - Run (Assignment1) X
cd C:\Users\krish\Desktop\Krishna\Study\Algorithm\Assignment\Assignment\Assignment]; JAVA_HOME=C:\\Users\krish\\Desktop\\Krishna\\Study\\Algorithm\\jdk-23 cmd /c "\"C:\\Progr
     Enter height, width of wall in feet and Number of walls
Enter height, width of door in feet and Number of door
8 3 2
     Enter height, width of door in feet and number of windows
3 2 2
Square feet of Walls = 360.0
     Square feet of Doors = 48.0
     Square feet of Windows = 12.0
     Area to be painted = 300.0
     Price of paint per galloon?
     Price of painting = 50.0
     Number of galloons = 1
     Hours of painting = 8
     Cost of painting per galloon = 50
     Labour cost = 160.0
     Total cost of painting = 210.0
```