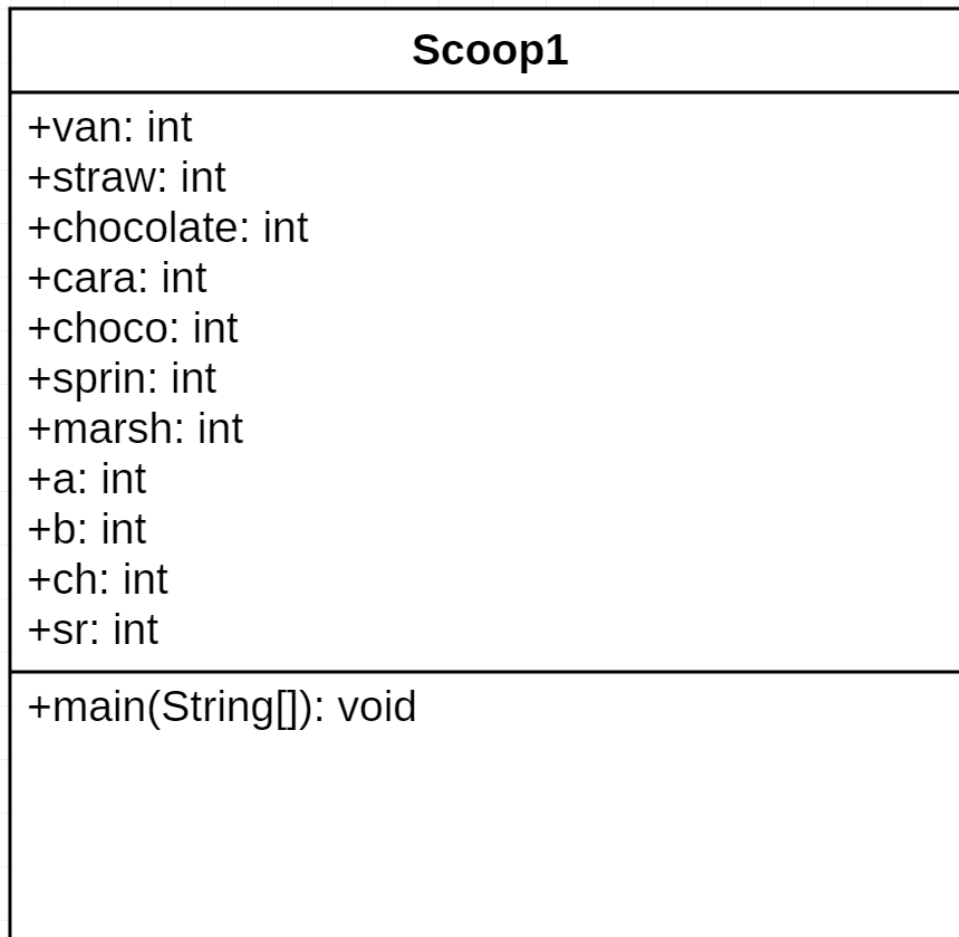


Question-7

Class Diagram



Code

```
Package exam2;

import java.util.*;
public class scoop1
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int van=50;
        int straw=60;
        int chocolate=70;
        int cara=20;
```

```
int choco=30;
int sprin=40;
int marsh=50;
int a=0,b=0;

System.out.println("Select the option for required ice-cream");
System.out.println("1-Vanilla");
System.out.println("2-Strawberry");
System.out.println("3-Chocolate");
int opt=sc.nextInt();
if(opt==1)
{
    a=50;
    int x=0;
    while(true)
    {
        System.out.println("Select the required topping");
        System.out.println("1-Caramel");
        System.out.println("2-Choco-Chips");
        System.out.println("3-Sprinkles");
        System.out.println("4-Marsh Mellow");
        System.out.println("5-Thats all for me");
        int ch=sc.nextInt();
        if(ch==5)
            break;
        System.out.println("Enter number of Servings");
        int sr=sc.nextInt();
        if(ch==1)
            b=b+sr*cara;
        else if(ch==2)
            b=b+sr*choco;
        else if(ch==3)
            b=b+sr*sprin;
        else if(ch==4)
            b=b+sr*marsh;

    }
    b=a+b;
}
else if(opt==2)
{
    a=60;
    while(true)
    {
        System.out.println("Select the required topping");
        System.out.println("1-Caramel");
        System.out.println("2-Choco-Chips");
        System.out.println("3-Sprinkles");
        System.out.println("4-Marsh Mellow");
        System.out.println("5-Thats all for me");
        int ch=sc.nextInt();
        if(ch==5)
            break;
        System.out.println("Enter number of Servings");
        int sr=sc.nextInt();
        if(ch==1)
```

```
        b=b+sr*cara;
    else if(ch==2)
        b=b+sr*choco;
    else if(ch==3)
        b=b+sr*sprin;
    else if(ch==4)
        b=b+sr*marsh;

    }
    b=a+b;
    if(opt==3)
    {
        a=70;
        while(true)
        {
            System.out.println("Select the required topping");
            System.out.println("1-Caramel");
            System.out.println("2-Choco-Chips");
            System.out.println("3-Sprinkles");
            System.out.println("4-Marsh Mellow");
            System.out.println("5-Thats all for me");
            int ch=sc.nextInt();
            if(ch==5)
                break;
            System.out.println("Enter number of Servings");
            int sr=sc.nextInt();
            if(ch==1)
                b=b+sr*cara;
            else if(ch==2)
                b=b+sr*choco;
            else if(ch==3)
                b=b+sr*sprin;
            else if(ch==4)
                b=b+sr*marsh;

        }
        b=a+b;
    }

}
System.out.println("Total cost for the Ice-Cream is"+b);

}

}
```