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Branch - CBA , Batch - 31

OOP Practical 3

Problem : Aditya went to a supermarket to purchase 12 pens where each pen is of Rs. 10 and a set of 6 books each costing Rs. 40. Compute the total cost incurred by Aditya in purchasing the stationary items, that is, the total invoice to be generated by the shopkeeper through java program implementation.

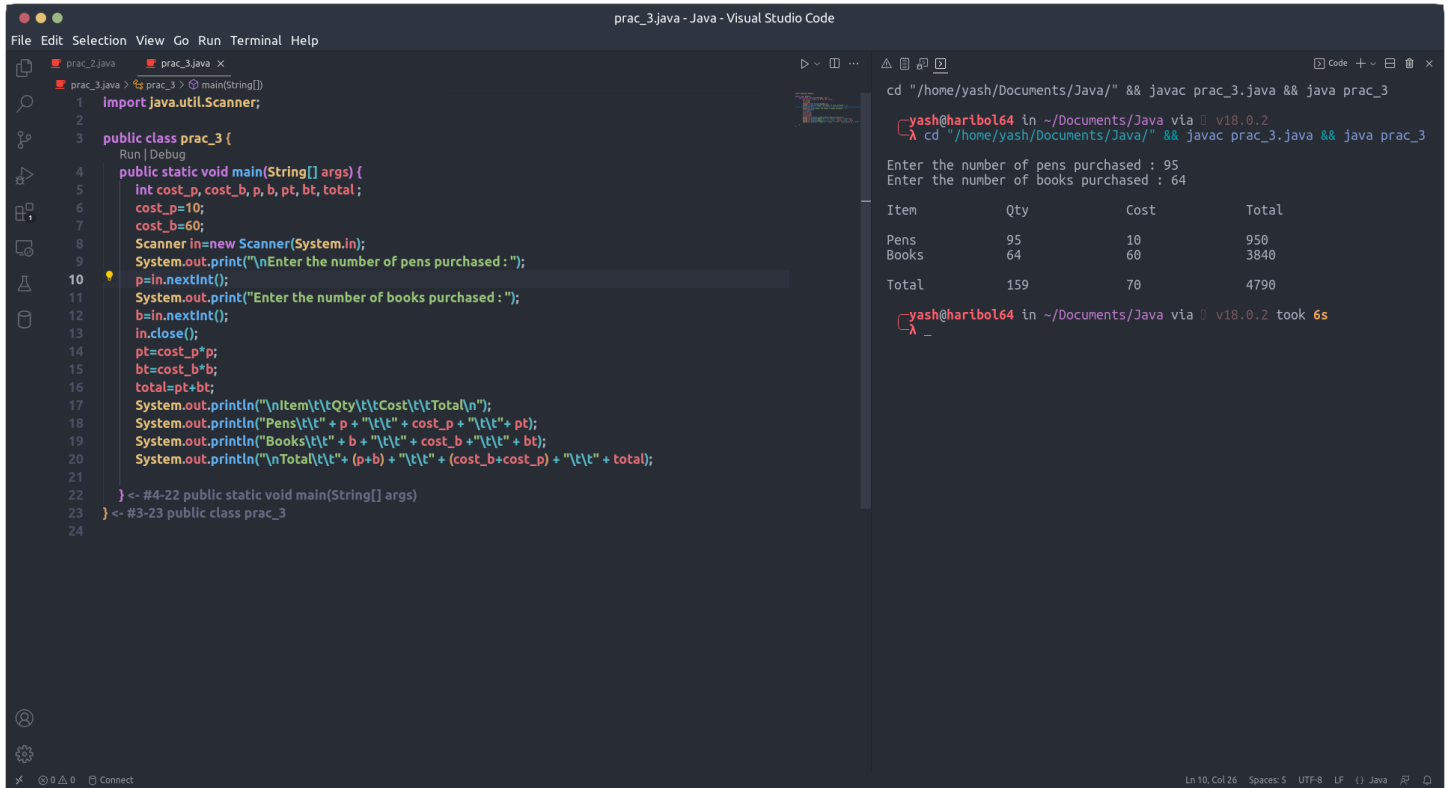
Code :

```
import java.util.Scanner;

public class prac_3 {
    public static void main(String[] args) {
        int cost_p, cost_b, p, b, pt, bt, total;
        cost_p=10;
        cost_b=60;
        Scanner in=new Scanner(System.in);
        System.out.print("\nEnter the number of pens purchased : ");
        p=in.nextInt();
        System.out.print("Enter the number of books purchased : ");
        b=in.nextInt();
        in.close();
        pt=cost_p*p;
        bt=cost_b*b;
        total=pt+bt;
        System.out.println("\nItem\tQty\tCost\tTotal\n");
        System.out.println("Pens\t\t" + p + "\t\t" + cost_p + "\t\t" + pt);
        System.out.println("Books\t\t" + b + "\t\t" + cost_b + "\t\t" + bt);
        System.out.println("\nTotal\t\t" + (p+b) + "\t\t" + (cost_b+cost_p) + "\t\t" +
total);
    }
}
```

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Output :



The screenshot shows a Visual Studio Code editor with a Java file named `prac_3.java`. The code defines a `Scanner` class with a `main` method that prompts the user for the number of pens and books purchased, calculates the total cost, and prints a table of the purchases.

```
1 import java.util.Scanner;
2
3 public class prac_3 {
4     public static void main(String[] args) {
5         int cost_p, cost_b, p, b, pt, bt, total;
6         cost_p=10;
7         cost_b=60;
8         Scanner in=new Scanner(System.in);
9         System.out.print("\nEnter the number of pens purchased :");
10        p=in.nextInt();
11        System.out.print("\nEnter the number of books purchased :");
12        b=in.nextInt();
13        in.close();
14        pt=cost_p*p;
15        bt=cost_b*b;
16        total=pt+bt;
17        System.out.println("\nItem\tQty\tCost\tTotal\n");
18        System.out.println("Pens\t"+ p + "\t" + cost_p + "\t" + pt);
19        System.out.println("Books\t"+ b + "\t" + cost_b + "\t" + bt);
20        System.out.println("\nTotal\t"+ (p+b) + "\t" + (cost_b+cost_p) + "\t" + total);
21    }
22 }
23 }
24
```

The output of the program is shown in the terminal window on the right. It displays the prompts for the number of pens and books purchased, followed by a table of the purchases.

```
cd "/home/yash/Documents/Java/" && javac prac_3.java && java prac_3
yash@haribol64 in ~/Documents/Java via v18.0.2
cd "/home/yash/Documents/Java/" && javac prac_3.java && java prac_3
Enter the number of pens purchased : 95
Enter the number of books purchased : 64
Item      Qty      Cost      Total
Pens      95       10       950
Books     64       60      3840
Total     159       70      4790
yash@haribol64 in ~/Documents/Java via v18.0.2 took 6s
```