

ActivitiesText EditorApr 29 14:38Assignment5.cpp~/11260Save

```
1 /*
2 Assignment 5
3 Make a class named Fruit with a data member to calculate the number of fruits in a
4 basket. Create two other classes named Apples and Mangoes to calculate the number of
5 apples and mangoes in the basket. Print the number of fruits of each type and the total
6 number of fruits in the basket.
7 Name-Dev Sarode
8 Division-12
9 Roll no-11260
10 Date-18/03/2025
11 */
12
13 #include<iostream>
14 using namespace std;
15
16 //Base class basket
17 class basket{
18 public:
19     char basket[8] = {'M','A','A','M','A','A','M','A'};
20 };
21
22 //Derived class Apples
23 class apples : private basket{
24 public:
25     int applecount=0;
26
27     int Apples(){
28         for(int i=0; i<8; i++){
29             if(basket[i] == 'A'){
30                 applecount++;
31             }
32         }
33         return applecount;
34     }
35 };
36
37 //Derived class Mangoes
```

C++Tab Width: 8Ln 1, Col 1INS



Open ▾



Assignment5.cpp

~/11260

Save



```
34     }
35 };
36
37 //Derived class Mangoes
38 class mangoes : private basket{
39 public:
40     int mangocount=0;
41
42     int Mangoes(){
43         for(int i=0; i<8; i++){
44             if(basket[i] == 'M'){
45                 mangocount++;
46             }
47         }
48         return mangocount;
49     }
50 };
51
52 //Derived class Fruits
53 class fruits : private apples, private mangoes{
54 public:
55     int fruits;
56     void totalfruits(){
57         fruits = Apples() + Mangoes();
58         cout<<"Total fruits in basket are : "<<fruits<<endl;
59         cout<<"No. of Apples in basket are : "<<applecount<<endl;
60         cout<<"No. of Mangoes in basket are : "<<mangocount<<endl;
61     }
62 }
63 };
64
65 //Main Function
66 int main(){
67     fruits b1;
68     b1.totalfruits();
69     return 0;
70 }
```



```
fe@pict-OptiPlex-3020:~/11260$ g++ Assignment5.cpp
fe@pict-OptiPlex-3020:~/11260$ ./a.out
Total fruits in basket are : 8
No. of Apples in basket are : 5
No. of Mangoes in basket are : 3
fe@pict-OptiPlex-3020:~/11260$
```