SYCM-I Roll No:15

Date of Performance : 01/10/2022

Practical no: 10.2

Title : Accept and display data for 3 products using constructor overloading

#include<iostream>

#include<string.h>

using namespace std;

class product

{

private:

int prod\_id;

char prod\_name[25];

float prod\_price;

public:

//Default constructor

product(void)

{

prod\_id=1001;

strcpy(prod\_name,"Keyboard");

prod\_price=800;

}

//parameterized constructor-1

product(int id)

{

prod\_id=id;

strcpy(prod\_name,"Printer");

prod\_price=8000;

}

//parameterized constructor-2

product(int id,char name[])

{

prod\_id=id;

strcpy(prod\_name,name);

prod\_price=10000;

}

//parameterized constructor-3

product(int id,char name[],float price)

{

prod\_id=id;

strcpy(prod\_name,name);

prod\_price=price;

}

//Member function

void display(void)

{

cout<<"ID: "<<prod\_id<<endl;

cout<<"Name: "<<prod\_name<<endl;

cout<<"Price: "<<prod\_price<<endl;

}

};

//Main function

int main()

{

int id;

char name[25];

float price;

cout<<"Enter Information of Product-1:\n";

cout<<"Enter ID:";cin>>id;

product p1(id);

cout<<"\nEnter Information of Product-2:\n";

cout<<"Enter ID:";cin>>id;

cout<<"Enter Name: ";

fflush(stdin);

gets(name);

product p2(id,name);

cout<<"\nEnter Information of Product-3:\n";

cout<<"Enter ID:";cin>>id;

fflush(stdin);

cout<<"Enter Name: ";

fflush(stdin);

gets(name);

cout<<"Enter Price:";cin>>price;

product p3(id,name,price);

cout<<"\nProduct-1:\n";

p1.display();

cout<<"\nProduct-2:\n";

p2.display();

cout<<"\nProduct-3:\n";

p3.display();

return 0;

}

**Output:**

Enter Information of Product-1:

Enter ID:101

Enter Information of Product-2:

Enter ID:102

Enter Name: CPU

Enter Information of Product-3:

Enter ID:103

Enter Name: Mouse

Enter Price:450

Product-1:

ID: 101

Name: Printer

Price: 8000

Product-2:

ID: 102

Name: CPU

Price: 10000

Product-3:

ID: 103

Name: Mouse

Price: 450

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