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Title: Program for demonstrate function overloading.
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```cpp
#include<iostream.h>
#include<conio.h>

class fundemo
{
public:
    void swap(int &, int &);
    void swap(char &, char &);
    void swap(float &, float &);
};

void fundemo::swap(int &a, int &b)
{
    int t;
    t=a;
    a=b;
    b=t;
}

void fundemo::swap(char &p, char &q)
{
    char t;
    t=p;
    p=q;
    q=t;
}

void fundemo::swap(float &m, float &n)
{
    float t;
    t=m;
    m=n;
    n=t;
}

void main()
{
    clrscr();
    fundemo f;

    int a,b;
    char p,q;
    float m,n;

    cout<<"\n\n Enter two integer a and b\t";
    cin>>a>>b;
    cout<<"\n\n Before swaping a and b is:\t"<<a<<"\t"<<b;
    f.swap(a,b);
    cout<<"\n\n After swaping a and b is:\t"<<a<<"\t"<<b;
```

5

10

```
cout<<"\n\n Enter two character p and q\t";
cin>>p>>q;
cout<<"\n\n Before swaping p and q is:\t"<<p<<"\t"<<q;
f.swap(p,q);
cout<<"\n\n After swaping p and q is:\t"<<p<<"\t"<<q;

cout<<"\n\n Enter two float m   and n\t";
cin>>m>>n;
cout<<"\n\n Before swaping m and n is:\t"<<m<<"\t"<<n;
f.swap(m,n);
cout<<"\n\n After swaping m and n is:\t"<<m<<"\t"<<n;

getch();

}
```

Enter two integer a and b          4   5

Before swaping a and b is:         4           5

After swaping a and b is:          5           4

Enter two character p and q        t   p

Before swaping p and q is:         t           p

After swaping p and q is:          p           t

Enter two float m   and n          4.5   7.8

Before swaping m and n is:         4.5         7.8

After swaping m and n is:          7.8         4.5