

ActivitiesText EditorApr 29 14:42Assignment7.cpp~/11260Save

```
1 /*
2 Assignment 7
3 Write a program to swap different types of values using function overloading so that
4 changes made in formal parameter should be reflected in actual parameter.
5 Name-Dev Sarode
6 Division-12
7 Roll no-11260
8 Date-08/04/2025
9 */
10
11 #include<iostream>
12 #include<string>
13 using namespace std;
14
15 class swapping{
16 public:
17     void input( int &w, int &r, float &f, float &g, char &j, char &k, string &o, string &i ){
18         cout<<"Enter integers values to swap : "<<endl;
19         cin>>w;
20         cin>>r;
21
22         cout<<"Enter floating values to swap : "<<endl;
23         cin>>f;
24         cin>>g;
25
26         cout<<"Enter character values to swap : "<<endl;
27         cin>>j;
28         cin>>k;
29
30         cout<<"Enter string values to swap : "<<endl;
31         cin>>o;
32         cin>>i;
33     }
34
35     void swap(int &a, int &b){
36         int temp = a;
37         a = b;
```

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

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```
35 void swap(int &a, int &b){
36     int temp = a;
37     a = b;
38     b = temp;
39 }
40
41 void swap(float &a, float &b) {
42     float temp = a;
43     a = b;
44     b = temp;
45 }
46
47 void swap(char &a, char &b) {
48     char temp = a;
49     a = b;
50     b = temp;
51 }
52
53 void swap(string &a, string &b) {
54     string temp = a;
55     a = b;
56     b = temp;
57 }
58
59 };
60
61 int main(){
62     swapping s;
63     int x;
64     int y;
65     float p;
66     float q;
67     char u;
68     char v;
69     string g;
70     string h;
71 }
```

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

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```
58
59 };
60
61 int main(){
62     swapping s;
63     int x;
64     int y;
65     float p;
66     float q;
67     char u;
68     char v;
69     string g;
70     string h;
71
72     s.input(x,y,p,q,u,v,g,h);
73
74     cout<<"Before swapping integers: x = "<< x <<" & y = "<< y << endl;
75     s.swap(x,y);
76     cout<<"After swapping integers: x = "<< x <<" & y = "<< y << endl;
77
78
79     cout<<"Before swapping floating values : p = "<< p <<" & q = "<< q << endl;
80     s.swap(p,q);
81     cout<<"After swapping floating values : p = "<< p <<" & q = "<< q << endl;
82
83
84     cout<<"Before swapping integers: u = "<< u <<" & v = "<< v << endl;
85     s.swap(u,v);
86     cout<<"After swapping integers: u = "<< u <<" & v = "<< v << endl;
87
88
89     cout<<"Before swapping string values : g = "<< g <<" & h = "<< h << endl;
90     s.swap(g,h);
91     cout<<"After swapping string values : g = "<< g <<" & h = "<< h << endl;
92
93     return 0;
94 }
```

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



```
fe@pict-OptiPlex-3020:~/11260$ g++ Assignment7.cpp
```

```
fe@pict-OptiPlex-3020:~/11260$ ./a.out
```

```
Enter integers values to swap :
```

```
6
```

```
9
```

```
Enter floating values to swap :
```

```
6.3
```

```
5.3
```

```
Enter character values to swap :
```

```
d
```

```
e
```

```
Enter string values to swap :
```

```
dev
```

```
sonu
```

```
Before swapping integers: x = 6 & y = 9
```

```
After swapping integers: x = 9 & y = 6
```

```
Before swapping floating values : p = 6.3 & q = 5.3
```

```
After swapping floating values : p = 5.3 & q = 6.3
```

```
Before swapping integers: u = d & v = e
```

```
After swapping integers: u = e & v = d
```

```
Before swapping string values : g = dev & h = sonu
```

```
After swapping string values : g = sonu & h = dev
```

```
fe@pict-OptiPlex-3020:~/11260$
```