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## TASK-6

1Q)

```
#include<bits/stdc++.h>
using namespace std;
int main(){
    string s;
    cin>>s;
    bool n=(s[0]=='-');
    if(n){
        s=s.substr(1);
    }
    string a;
    string b;
    int p=s.find('.');
    if(p!=-1){
        a=s;
        b="";
    }
    else{
        a=s.substr(0,p);
        b=s.substr(p+1);
    }
    while(b.size()<2){
        b+='0';
    }
    if(b.size()>2){
        b=b.substr(0,2);
    }
    string r="";
    int c=0;
    for(int i=a.size()-1;i>=0;i--){
        r=a[i]+r;
        c++;
        if(c==3&& i>0){
            r=","+r;
            c=0;
        }
    }
    if(r==""){
        r="0";
    }
}
```

```

    }
    string f="$"+r+"."+b;
    if(n){
        f="("+f+")";
    }
    cout<<f<<endl;
}

```

The screenshot shows a C++ IDE with a code editor on the left and a console/output panel on the right. The code in the editor is a C++ program that takes a string input, processes it to format a number with commas and a decimal point, and then outputs the result. The console shows the input '2012' and the output '\$2,012.00'.

```

1  #include<bits/stdc++.h>
2  using namespace std;
3  int main(){
4      string s;cin>>s;
5      bool n=(s[0]=='-');
6      if(n){
7          s=s.substr(1);
8      }
9      string a; string b;
10     int p=s.find('.');
11     if(p!=-1){
12         a=s.substr(0,p);
13     }
14     else{
15         a=s.substr(0,p);b=s.substr(p+1);
16     }
17     while(b.size()<2){
18         b+='0';
19     }
20     if(b.size()>2){
21         b=b.substr(0,2);
22     }
23     string r="";int c=0;
24     for(int i=a.size()-1;i>=0;i--){
25         r=a[i]+r;c++;
26         if(c==3&&i>0){
27             r=","+r;c=0;
28         }
29     }
30     if(r==""){
31         r="0";
32     }
33     string f="$"+r+"."+b;
34     if(n){
35         f="("+f+")";
36     }
37     cout<<f<<endl;
38 }
39

```

Run Visualize Code

2012

Output

Status : Successfully executed

Time: 0.0000 secs Memory: 3.592 Mb

Sample Input

2012

Your Output

\$2,012.00

```

1 #include<bits/stdc++.h>
2 using namespace std;
3 int main(){
4     string s;cin>>s;
5     bool n=(s[0]=='-');
6     if(n){
7         s=s.substr(1);
8     }
9     string a; string b;
10    int p=s.find('.');
11    if(p==-1){
12        a=s;b="";
13    }
14    else{
15        a=s.substr(0,p);b=s.substr(p+1);
16    }
17    while(b.size()<2){
18        b+='0';
19    }
20    if(b.size()>2){
21        b=b.substr(0,2);
22    }
23    string r="";int c=0;
24    for(int i=a.size()-1;i>=0;i--){
25        r=a[i]+r;c++;
26        if(c==3&& i>0){
27            r=","+r; c=0;
28        }
29    }
30    if(r==""){
31        r="0";
32    }
33    string f="$"+r+"."+b;
34    if(n){
35        f="(" +f+")";
36    }
37    cout<<f<<endl;
38 }

```

0.000

Output

Status : Successfully executed

Time:  
0.0000 secs

Memory:  
3.56 Mb

Sample Input

0.000

Your Output

\$0.00

```

1 #include<bits/stdc++.h>
2 using namespace std;
3 int main(){
4     string s;cin>>s;
5     bool n=(s[0]=='-');
6     if(n){
7         s=s.substr(1);
8     }
9     string a; string b;
10    int p=s.find('.');
11    if(p==-1){
12        a=s;b="";
13    }
14    else{
15        a=s.substr(0,p);b=s.substr(p+1);
16    }
17    while(b.size()<2){
18        b+='0';
19    }
20    if(b.size()>2){
21        b=b.substr(0,2);
22    }
23    string r="";int c=0;
24    for(int i=a.size()-1;i>=0;i--){
25        r=a[i]+r;c++;
26        if(c==3&& i>0){
27            r=","+r; c=0;
28        }
29    }
30    if(r==""){
31        r="0";
32    }
33    string f="$"+r+"."+b;
34    if(n){
35        f="(" +f+")";
36    }
37    cout<<f<<endl;
38 }

```

-12345678.9

Output

Status : Successfully executed

Time:  
0.0000 secs

Memory:  
3.568 Mb

Sample Input

-12345678.9

Your Output

(\$12,345,678.90)

C++

Run

Visualize Code

```
1 #include<bits/stdc++.h>
2 using namespace std;
3 int main(){
4     string s;cin>>s;
5     bool n=(s[0]=='-');
6     if(n){
7         s=s.substr(1);
8     }
9     string a; string b;
10    int p=s.find('.');
11    if(p==-1){
12        a=s;b="";
13    }
14    else{
15        a=s.substr(0,p);b=s.substr(p+1);
16    }
17    while(b.size()<2){
18        b+='0';
19    }
20    if(b.size()>2){
21        b=b.substr(0,2);
22    }
23    string r="";int c=0;
24    for(int i=a.size()-1;i>=0;i--){
25        r=a[i]+r;c++;
26        if(c==3&& i>0){
27            r=","+r; c=0;
28        }
29    }
30    if(r==""){
31        r="0";
32    }
33    string f="$"+r+"."+b;
34    if(n){
35        f="("+f+")";
36    }
37    cout<<f<<endl;
38 }
39
```

-0.00987654321

Output

Status : Successfully executed

Time:0.0000 secs

Memory:3.372 Mb

Sample Input

-0.00987654321

Your Output

(\$0.00)