# **COMPUTER SOFTWARE LAB**

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#### **PROBLEM STATEMENT:**

Give a code that designs a single manipulator to provide the following output specification.

- 1. 10 columns width
- 2. Right justified
- 3. Two digits precision
- 4. Unused spaces filled with '\*'
- 5. Trailing zeros shown

Also give the statement by which you invoke this manipulator

### **PROGRAM CODE:**

```
#include<iostream>
#include<conio.h>
using namespace std;
ostream& usermanip(ostream& output)
     output.width(10);
     output.precision(2);
     output.fill('*');
     output.setf(ios::showpoint);
                                              //Trailing zeros are shown
     output.setf(ios::right,ios::adjustfield); //Right-justification
     output.setf(ios::fixed,ios::floatfield); //Fixed representation
     return output;
}
int main()
{
    float num;
    cout<<"\nenter the floating point number: ";</pre>
    cin>>num;
    cout<<usermanip;</pre>
    cout<<num;</pre>
    goto z;
    getch();
    return 0;
}
```

## **OUTPUT:**

```
enter the floating point number: 1.2234
*****1.22
enter the floating point number: 3.45
*****3.45
enter the floating point number: 2
*****2.00
enter the floating point number: -9.009
*****-9.01
enter the floating point number: -9.005
*****-9.01
enter the floating point number: -10.89
****-10.89
enter the floating point number: -15567.889
*-15567.89
enter the floating point number: +23232.00999
**23232.01
```

# **RESULT:**

Hence a user-defined manipulator is created with the given specifications and used in the program to format the display of floating point numbers as required.