**Write a program to create a userdefined manipulator that will format the output by setting the width, precision and fill character at the same time by passing arguments.**

**#include <iostream>**

**#include <iomanip>**

**using namespace std;**

**class Testmani{**

**private:**

**int width, precision;**

**char fill;**

**public:**

**Testmani(int w, int p , char f):width(w),precision(p),fill(f){};**

**friend ostream& operator<<(ostream &str, Testmani obj);**

**};**

**ostream& operator<<(ostream &str, Testmani obj)**

**{**

**str << setw(obj.width)<< setfill(obj.fill) << setprecision(obj.precision);**

**return str;**

**}**

**Testmani setwpf(int w, int p, char f)**

**{**

**return Testmani(w,p,f);**

**}**

**int main()**

**{**

**cout << setwpf(5,3,'$') << 5.630009;**

**return 0;**

**}**

**#include<iostream>//or**

**#include<iomanip>**

**using namespace std;**

**class manip**

**{**

**int Width,Precision;**

**char fill\_char;**

**public:**

**manip(int width,int precision,char fillchar):Width(width),Precision(precision),fill\_char(fillchar){};**

**friend ostream& operator <<(ostream& output, manip obj);**

**};**

**ostream & operator<<(ostream& output,manip obj)**

**{**

**output<<setw(obj.Width);**

**output<<setprecision(obj.Precision);**

**output<<setfill(obj.fill\_char);**

**return output;**

**}**

**manip setvalue(int width,int precision,char fillchar)**

**{**

**return manip(width,precision,fillchar);**

**}**

**int main()**

**{**

**cout << setvalue(10,3,'\*')<<28.66565544;**

**}**