```
#include <iostream>
#include <fstream>
#include <string.h>
using namespace std;
class Student
public:
  float cgpi;
  int sem;
};
const int LINE = 5;
int main()
       cin.ignore();
       getline(cin, stud[i].name, '\n');
      cin >> stud[i].roll;
      cin >> stud[i].cgpi;
       cin >> stud[i].sem;
      if (i == 4)
           cout << "You have Entered all the Enteries" << endl;</pre>
  ofstream myfile("example.txt", std::ios base::app);
       if (myfile.is open())
```

```
myfile << stud[i].name << ", " << stud[i].roll << ", " <</pre>
stud[i].cgpi << ", " << stud[i].sem << endl;
  myfile.close();
  float k;
  cout << "Enter the threshold CGPI" << endl;</pre>
  cin >> k;
  ifstream f("example.txt");
<< endl;
       if (stud[i - 1].cgpi > k)
          getline(f, s);
           cout << s << endl;</pre>
          getline(f, s);
  Student S[6];
  int pos;
endl;
   cin >> pos;
   if (pos > 0 && pos < 6)
```

```
cout << "Invalid Position value" << endl;</pre>
     if (j == pos - 1)
          cout << "Enter the data for New Position " << pos << endl;</pre>
         cin.ignore();
         getline(cin, S[j].name, '\n');
         cin >> S[j].roll;
         cin >> S[j].cgpi;
         cin >> S[j].sem;
         S[j] = stud[i];
 ofstream ofs;
 ofs.open("example.txt", ios::out | ios::trunc);
 for (int i = 0; i < 6; i++)
     if (ofs.is open())
         ofs << S[i].name << ", " << S[i].roll << ", " << S[i].cgpi <<
, " << S[i].sem << endl;</pre>
```

```
ofs.close();
return 0;
}
```

## THE OUTPUT SCREENSHOT IS ATTACHED BELOW

```
Activities

    Terminal ▼

 Ŧ
sitaram@sitaram:~/DS-Lab$ g++ -o lab-assign2 lab-assign2.cpp
sitaram@sitaram:~/DS-Lab$ ./lab-assign2
Enter the Name, Roll no., CGPI and sem of Student 1:
rohit rathi
195567
9.6
Enter the Name, Roll no., CGPI and sem of Student 2:
raja rathi
195578
5.6
Enter the Name, Roll no., CGPI and sem of Student 3:
aakash sharma
195543
9.5
Enter the Name, Roll no., CGPI and sem of Student 4:
avi bura
195532
8.1
Enter the Name, Roll no., CGPI and sem of Student 5:
yash gupta
195521
You have Entered all the Enteries
Enter the threshold CGPI
These are the Students with CGPI greater than Threshold CGPI:
ohit rathi, 195567, 9.6, 3
aakash sharma, 195543, 9.5, 3
avi bura, 195532, 8.1, 3
yash gupta, 195521, 9, 3
Enter the position at which you want to enter the data :
The value of Position is valid Processing...
```

```
Activities

    Terminal ▼

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                                                                   sit
Enter the Name, Roll no., CGPI and sem of Student 2:
raja rathi
195578
5.6
Enter the Name, Roll no., CGPI and sem of Student 3:
aakash sharma
195543
9.5
Enter the Name, Roll no., CGPI and sem of Student 4:
avi bura
195532
8.1
Enter the Name, Roll no., CGPI and sem of Student 5:
yash gupta
195521
You have Entered all the Enteries
Enter the threshold CGPI
These are the Students with CGPI greater than Threshold CGPI:
ohit rathi, 195567, 9.6, 3
aakash sharma, 195543, 9.5, 3
avi bura, 195532, 8.1, 3
yash gupta, 195521, 9, 3
Enter the position at which you want to enter the data :
The value of Position is valid Processing...
Enter the data for New Position 3
raja rammmmm
194444
8.8
sitaram@sitaram:~/DS-Lab$
```