```
#include <iostream>
#include <string.h>
#include <sstream>
using namespace std;
class Student
public:
  int roll;
  float cgpi;
  int sem;
};
int main()
  Student stud[6];
1 << ":" << endl;
       getline(cin, stud[i].name, '\n');
       getline(cin, 1);
       stringstream rollstream(1);
       rollstream >> stud[i].roll;
       getline(cin, 1);
       stringstream cgpistream(1);
       cgpistream >> stud[i].cgpi;
       getline(cin, 1);
       semstream >> stud[i].sem;
```

```
cout << "You have Entered all the Enteries" << endl;</pre>
   float k;
   cout << "Enter the threshold CGPI" << endl;</pre>
  cin >> k;
<< endl;
       if (stud[i].cgpi > k)
           cout << "Roll no. - " << stud[i].roll << endl;</pre>
           cout << "CGPI - " << stud[i].cgpi << endl;</pre>
           cout << "Semester - " << stud[i].sem << endl</pre>
                 << endl;
  Student S[6];
   int pos;
endl;
   cin >> pos;
   if (pos > 0 && pos < 6)
       cout << "The value of Position is valid Processing..." << endl;</pre>
       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];
cout << "CGPI - " << stud[i].cgpi << endl;</pre>
     << endl;
```

BELOW IS THE SCREENSHOT OF THE OUTPUT OF THIS CODE

File Edit Selection View Go Run Terminal Help

```
PROBLEMS OUTPUT DEBUG CONSOLE
                                       TERMINAL
凸
       sitaram@sitaram:~/DS-Lab/Assign1$ g++ -o labAssign1 labAssign1.cpp
       sitaram@sitaram:~/DS-Lab/Assign1$ ./labAssign1
Q
       Enter the Name, Roll no., CGPI and sem of Student 1:
       rohit rathi
       195567
go
       8.8
       Enter the Name, Roll no., CGPI and sem of Student 2:
       raja rathi
       194565
       9
B
       3
       Enter the Name, Roll no., CGPI and sem of Student 3:
       yash gupta
       184453
       9.4
       Enter the Name, Roll no., CGPI and sem of Student 4:
       avi prakash
       194432
       5.6
       3
       Enter the Name, Roll no., CGPI and sem of Student 5:
       rakesh sh
       195566
       You have Entered all the Enteries
       Enter the threshold CGPI
       These are the Students with CGPI greater than Threshold CGPI:
       Name - yash gupta
Roll no. - 184453
       CGPI - 9.4
       Semester - 6
       Enter the position at which you want to enter the data :
```

sitaram@sitaram:~/DS-Lab/Assign1\$ [