LAB4_ASSIGNMENT

PROGRAM:

```cpp
#include<iostream>
using namespace std;
class mark_sheet{
private:
int roll_no;
string name;
long int phone_no;
int sem;
string branch;
int marks[5]={0,0,0,0,0};

public:
void get_data(){
cout<<"please enter your name"<<endl;
cin>>name;
cout<<"please enter your roll_no"<<endl;
cin>>roll_no;
cout<<"please enter your phone_no"<<endl;
cin>>phone_no;
cout<<"please enter your semester"<<endl;
cin>>sem;
cout<<"please enter your branch_name"<<endl;
cin>>branch;
for(int i=0;i<5;i++){
cout<<"please enter the marks of subject code out of 100: "<<i+1<<" ";
cin>>marks[i];
}
}

void show_data(int){
cout<<"roll number : "<<name<<"'s reasult is given below"<<endl;
int total=0;
cout<<"name: "<<name<<endl;
cout<<"phone no: "<<phone_no<<endl;
cout<<"semester: "<<sem<<endl;
cout<<"branch: "<<branch<<endl;
cout<<"your marks for subject code is given below"<<endl;
for(int i=0;i<5;i++){
cout<<i+1<<" "<<marks[i]<<endl;
total+=marks[i];
}
cout<<"average is "<<(total/5)<<endl;
```

```cpp
}

void show_data(string){
cout<<"student : "<<name<<"'s reasult is given below"<<endl;
int total=0;
cout<<"roll no: "<<roll_no<<endl;
cout<<"phone no: "<<phone_no<<endl;
cout<<"semester: "<<sem<<endl;
cout<<"branch: "<<branch<<endl;
cout<<"your marks for subject code is given below"<<endl;
for(int i=0;i<5;i++){
cout<<i+1<<" "<<marks[i]<<endl;
total+=marks[i];
}
cout<<"average is "<<(total/5)<<endl;

}

};

int main(){
int ip_data_int;
short int ip_check;
string ip_data_string;
mark_sheet student[2];
for(int i=0;i<2;i++){
student[i].get_data();
cout<<"please enter your roll number or name for reasult"<<endl;
cout<<"for entering roll number please press \'0\' and for entering name
press\'1\'"<<endl;
cin>>ip_check;
if(ip_check==0){
cout<<"enter your roll number here"<<endl;
cin>>ip_data_int;
cout<<"Thank you for formal procedure here is your reasult"<<endl;
student[i].show_data(ip_data_int);
}
else if(ip_check==1){
cout<<"enter your name here"<<endl;
cin>>ip_data_string;
cout<<"Thank you for formal procedure here is your reasult"<<endl;
student[i].show_data(ip_data_string);
}
else{
cout<<"there is some error in the input please recheck you data thank you!!!"<<endl;
break;
}
}
return 0;

}
```

OUTPUT:
For roll number as input:

```
kashyap@kash:~/cpp/LAB_2
kashyap@kash  ~/cpp/LAB_2  ./a.out
please enter your name
kashyap
please enter your roll_no
23
please enter your phone_no
9879965997
please enter your semester
4
please enter your branch_name
ec
please enter the marks of subject code out of 100: 1   54
please enter the marks of subject code out of 100: 2   45
please enter the marks of subject code out of 100: 3   87
please enter the marks of subject code out of 100: 4   67
please enter the marks of subject code out of 100: 5   87
please enter your roll number or name for reasult
for entering roll number please press '0' and for entering name press'1'
0
enter your roll number here
23
Thank you for formal procedure here is your reasult
roll number : kashyap's reasult is given below
name: kashyap
phone no: 9879965997
semester: 4
branch: ec
your marks for subject code is given below
1   54
2   45
3   87
4   67
5   87
average is 68
kashyap@kash  ~/cpp/LAB_2  _
```

For name as input:

```
kashyap@kash:~/cpp/LAB_2

 kashyap@kash   ~/cpp/LAB_2    ./a.out
please enter your name
gaurav
please enter your roll_no
26
please enter your phone_no
9879987998
please enter your semester
4
please enter your branch_name
ec
please enter the marks of subject code out of 100: 1  99
please enter the marks of subject code out of 100: 2  99
please enter the marks of subject code out of 100: 3  100
please enter the marks of subject code out of 100: 4  97
please enter the marks of subject code out of 100: 5  98
please enter your roll number or name for reasult
for entering roll number please press '0' and for entering name press'1'
1
enter your name here
gaurav
Thank you for formal procedure here is your reasult
student : gaurav's reasult is given below
roll no: 26
phone no: 9879987998
semester: 4
branch: ec
your marks for subject code is given below
1  99
2  99
3  100
4  97
5  98
average is 98
 kashyap@kash   ~/cpp/LAB_2
```