Name:G.nithish
REG NO . 19BCS0012
1.QUESTION

```cpp
#include<iostream>
using namespace std;
class sets
{
private:

    int n,i,a[100];
    float avg,d[100];

public:

 void get_data();
 void average();
 void diviation();
 void display_data();
};
void sets::get_data()
{
cout<<"enter the size of set   : ";
cin>>n;
cout<<endl;
cout<<"enter the elements of set"<<endl;
for(i=0;i<n;i++)
{
cin>>a[i];
}

}
void sets::average()
{
avg=0;
for(i=0;i<n;i++)
{
avg=avg+a[i];
avg=avg/n;
}
}
void sets::diviation()
{
for(i=0;i<n;i++)
{
d[i]=a[i]-avg;
}
}
void sets::display_data()
{
cout<<"average the given set is :"<<avg<<endl<<endl;
for(i=0;i<n;i++)
```

```cpp
{
cout<<"diviation of :"<<a[i]<<"="<<d[i]<<endl<<endl;
}
}
int main()
{
sets s;
s.get_data();
s.average();
s.diviation();
s.display_data();
return 0;
}
```

output