UAS 1

```cpp
#include<iostream>
using namespace std;
void bubbleSort(int data[], int n){
    int temp;
 for (int i = 0; i < n-1; i++)
  {
   for (int j = i+1; j < n; j++)
   {
      if (data[i]>data[j])
     {
        temp = data[i];
        data[i]=data[j];
        data[j]=temp;
     }
   }
  }
}
int main(){
   int length;
        cout<<"  Nama        : DEWI LESTARI "<<endl;
        cout<<"  Kelas       : SISTEM INFORMASI"<<endl;
        cout<<"  Mata Kuliah   : Algoritma & Pemoggraamaan 2 "<<endl<<endl;
   cout<<"ALGORITMA PENGURUTAN BUBLE SORT"<<endl;
        cout<<"Masukkan banyak elemen : ";
   cin>>length;
   cout<<"Masukan Nilai"<<endl;
   int data[length];
```

```cpp
    for (int i = 0; i < length; i++)

    {

        cout<<"Nilai :"<<" = ";

        cin>>data[i];

    }cout<<endl;


    cout<<"Data belum terurut : "<<endl;

    for (int i = 0; i < length; i++)

    {

        cout<<data[i]<<" ";

    }cout<<endl;


    bubbleSort(data,length);

    cout<<"Data sudah terurut : "<<endl;

    for (int i = 0; i < length; i++)

    {

        cout<<data[i]<<" ";

    }cout<<endl;


}
```

UAS 2

```cpp
#include<iostream>
#include<conio.h>
#include<iomanip>
using namespace std;
main()
{
cout<<endl;
cout<<"  Nama        : DEWI LESTARI "<<endl;
cout<<"  Kelas       : SISTEM INFORMASI"<<endl;
cout<<"  Mata Kuliah   : Algoritma & Pemoggraamaan 2 "<<endl<<endl;

int a[3][3],b[3][3],c[3][3],i,j,k;

cout<<"  Matriks 3 x 3 :";
cout<<endl;;
for(i=0;i<3;i++){
for(j=0;j<3;j++){

cout<<"  Input Baris "<<(i+1)<<" , Kolom "<<(j+1)<<" = ";

cin>>a[i][j];}
cout<<endl;}

cout<<"  Matriks 3 x 3 = "<<endl<<endl;

for(i=0;i<3;i++){
for(j=0;j<3;j++){
```

```cpp
cout<<setw(4)<<a[i][j];}

cout<<endl<<endl;}

getch ();

}
```