LAPORAN
PRAKTIKUM ALGORITMA PEMROGRAMAN

Disusun Oleh:

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PROGRAM STUDI INFORMATIKA

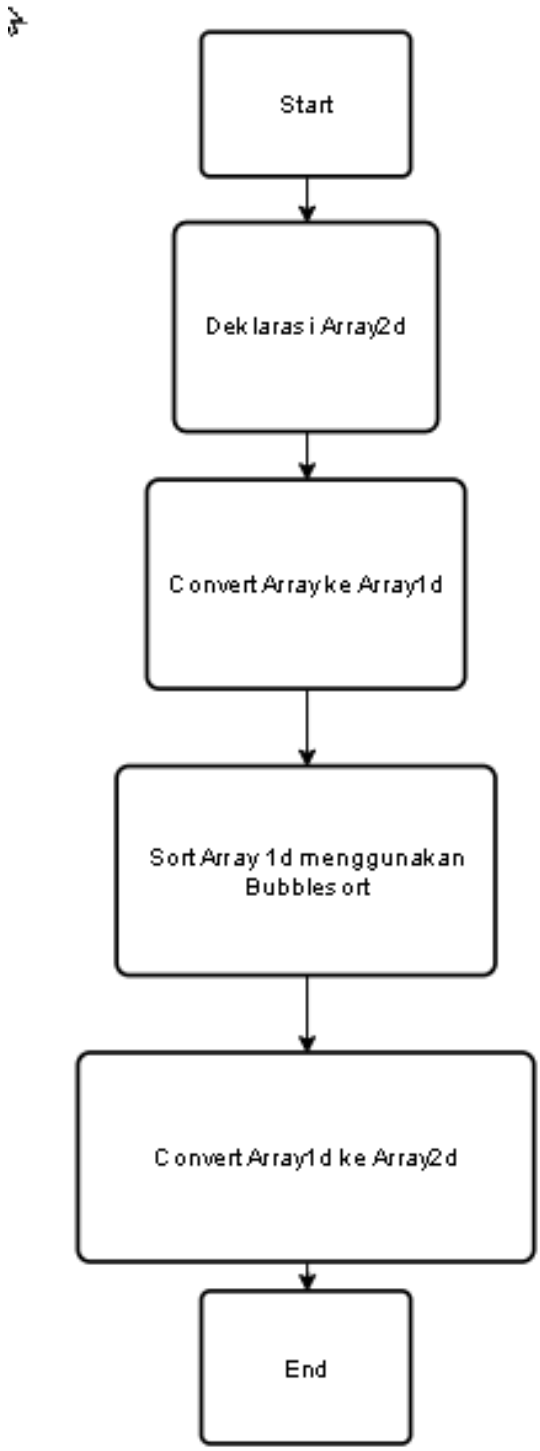
FAKULTAS TEKNOLOGI INDUSTRI

UNIVERSITAS AHMAD DAHLAN

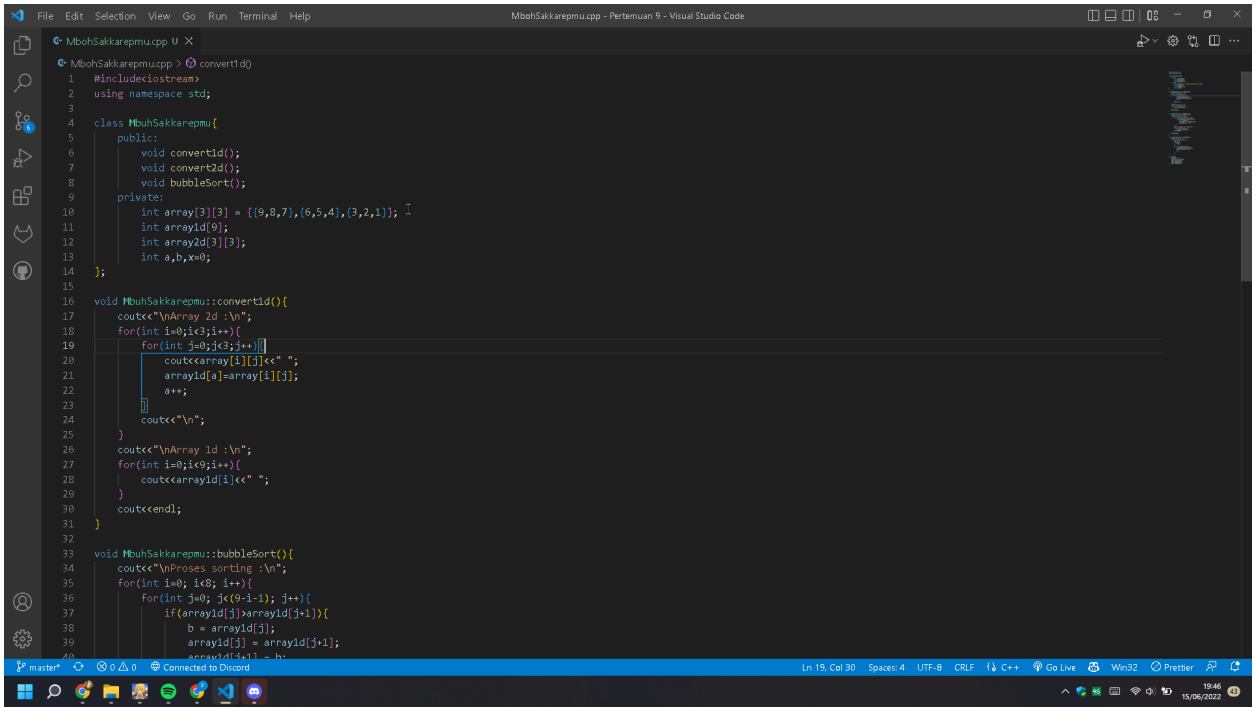
JUNI 2022

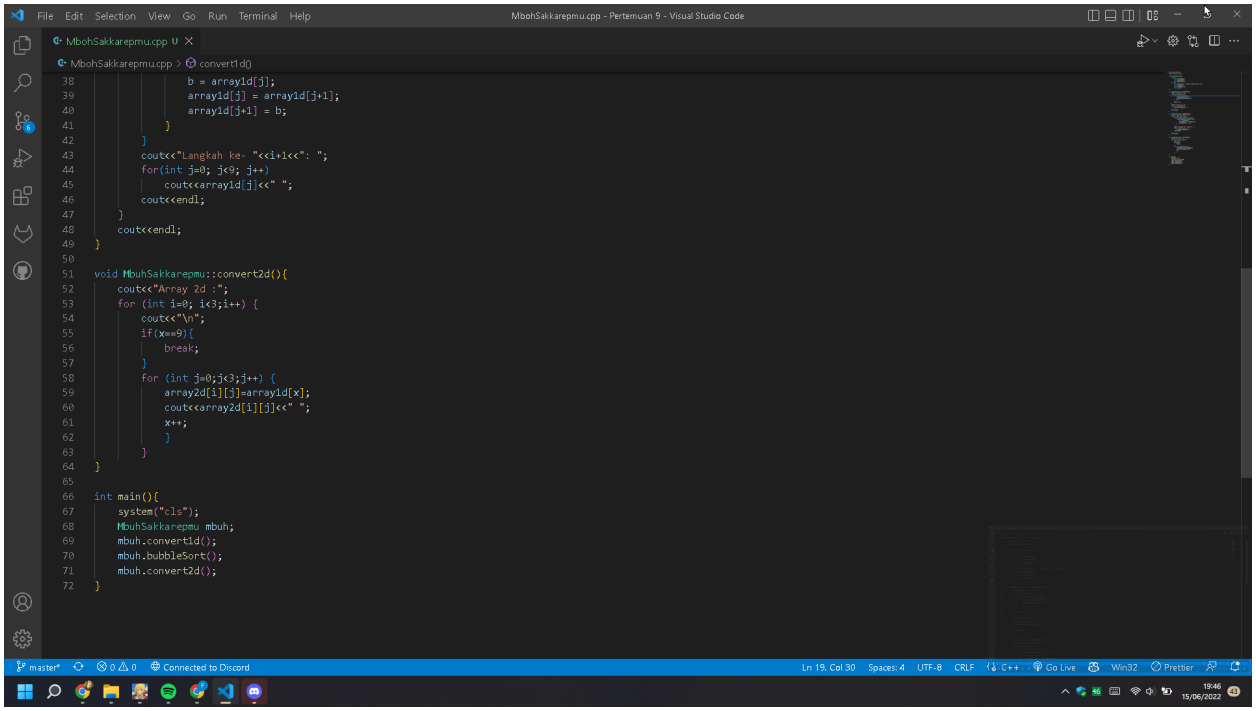
Kegiatan

Konsep awal

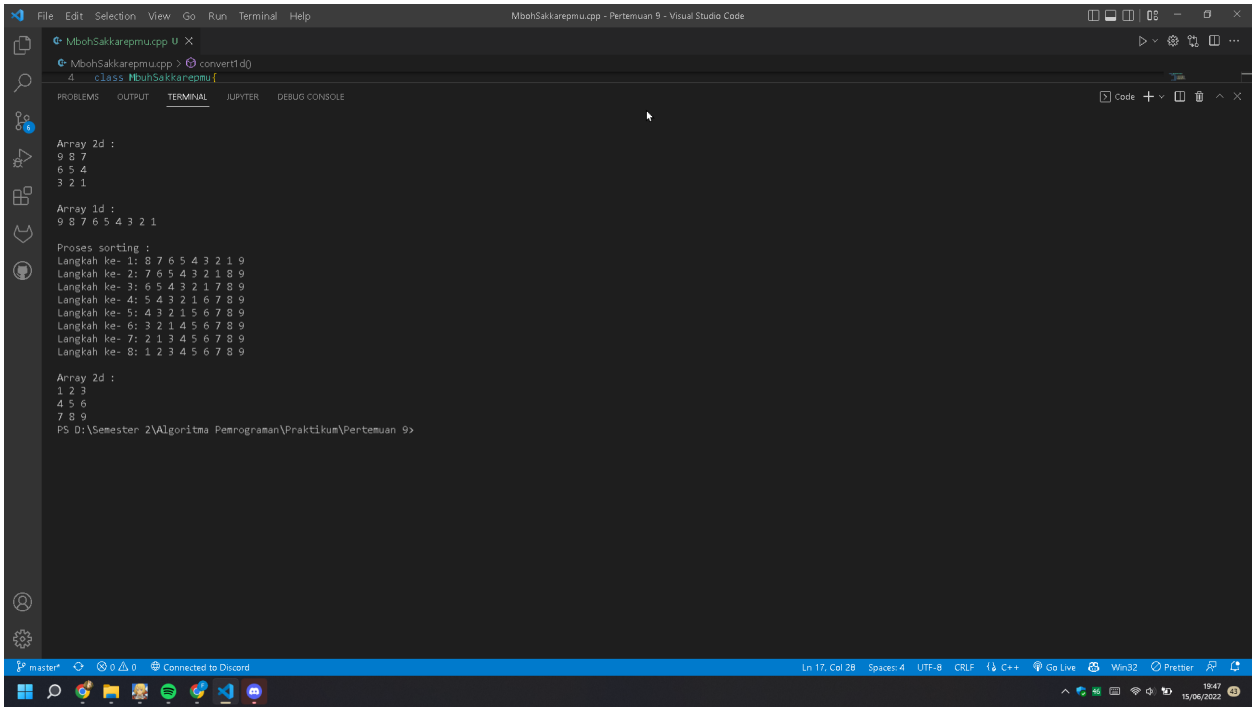


Source code:


File Edit Selection View Go Run Terminal Help
MbohSakkarepmu.cpp - Pertemuan 9 - Visual Studio Code
MbohSakkarepmu.cpp U
MbohSakkarepmu.cpp > convert1d()
#include<iostream>
using namespace std;
class MbuhSakkarepmu{
public:
void convert1d();
void convert2d();
void bubbleSort();
private:
int array[3][3] = {{9,8,7},{6,5,4},{3,2,1}};
int array1d[9];
int array2d[3][3];
int a,b,x=0;
};
void MbuhSakkarepmu::convert1d(){
cout<<"\nArray 2d :\n";
for(int i=0;i<3;i++){
for(int j=0;j<3;j++){
cout<<array[i][j]<<" ";
array1d[a]=array[i][j];
a++;
}
cout<<"\n";
}
cout<<"\nArray 1d :\n";
for(int i=0;i<9;i++){
cout<<array1d[i]<<" ";
}
cout<<endl;
}
void MbuhSakkarepmu::bubbleSort(){
cout<<"\nProses sorting :\n";
for(int i=0; i<8; i++){
for(int j=0; j<(9-i-1); j++){
if(array1d[j]>array1d[j+1]){
b = array1d[j];
array1d[j] = array1d[j+1];
master* Connected to Discord
Ln 19, Col 30 Spaces: 4 UTF-8 CRLF C++ Go Live Win32 Prettier
19:46
15/06/2022


File Edit Selection View Go Run Terminal Help
MbohSakkarepmu.cpp - Pertemuan 9 - Visual Studio Code
MbohSakkarepmu.cpp U
MbohSakkarepmu.cpp > convert1d()
b = array1d[j];
array1d[j] = array1d[j+1];
array1d[j+1] = b;
}
}
cout<<"Langkah ke- "<<i+1<<": ";
for(int j=0; j<9; j++)
cout<<array1d[j]<<" ";
cout<<endl;
}
cout<<endl;
}
void MbuhSakkarepmu::convert2d(){
cout<<"Array 2d :";
for (int i=0; i<3;i++) {
cout<<"\n";
if(x==9){
break;
}
for (int j=0;j<3;j++) {
array2d[i][j]=array1d[x];
cout<<array2d[i][j]<<" ";
x++;
}
}
}
int main(){
system("cls");
MbuhSakkarepmu mbuh;
mbuh.convert1d();
mbuh.bubbleSort();
mbuh.convert2d();
}
master* Connected to Discord
Ln 19, Col 30 Spaces: 4 UTF-8 CRLF C++ Go Live Win32 Prettier
19:46
15/06/2022

Hasil run :


File Edit Selection View Go Run Terminal Help
MbohSakkarepmu.cpp - Pertemuan 9 - Visual Studio Code
MbohSakkarepmu.cpp U
MbohSakkarepmu.cpp > convert1d()
4 class MbuhSakkarepmu{
PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE
Code
Array 2d :
9 8 7
6 5 4
3 2 1
Array 1d :
9 8 7 6 5 4 3 2 1
Proses sorting :
Langkah ke- 1: 8 7 6 5 4 3 2 1 9
Langkah ke- 2: 7 6 5 4 3 2 1 8 9
Langkah ke- 3: 6 5 4 3 2 1 7 8 9
Langkah ke- 4: 5 4 3 2 1 6 7 8 9
Langkah ke- 5: 4 3 2 1 5 6 7 8 9
Langkah ke- 6: 3 2 1 4 5 6 7 8 9
Langkah ke- 7: 2 1 3 4 5 6 7 8 9
Langkah ke- 8: 1 2 3 4 5 6 7 8 9
Array 2d :
1 2 3
4 5 6
7 8 9
PS D:\Semester 2\Algoritma Pemrograman\Praktikum\Pertemuan 9>
master* 0 0 Connected to Discord
Ln 17, Col 28 Spaces: 4 UTF-8 CRLF C++ Go Live Win32 Prettier
19:47
15/06/2022