LAPORAN UAS STRUKTUR DATA

UNDIRECTED GRAPH

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Membuat kodingan dan laporan sebuah algoritma yang membuat undirected graph menggunakan representasi adjacency list dengan input vertex dan edge.

Input:

1) int jumlah vertex yang ada dalam graph

2) (x,y,w) dengan x = vertex 1, y = vertex 2, w = weight

Output:

Satu per satu vertex, edge, dan weightnya

HASIL

```
#include<stdio.h>
#include<stdib.h>
int no_vertices;

struct node

{
    int data;
    struct node * {
    int data;
    struct node * ad[];
    void readgraph(struct node *ad[]);
    int main()

//input total vertex yang akan dinput
    int i,j,k,ch,start;
    printf("Enter the total numbe of vertex:");
    scanf("Md',sno_vertices);
    int visited[no_vertices];
    int visited[no_vertices];
    for(i=0;i<no_vertices;i++)
    {
        adj[i] = NULL;
    }
}</pre>
```

```
}
readgraph(adj);

do{ //pemilihan menu output data pilihan 1 print adjacency list dan 2 exit
    printf("Nn Enter 1 for Print the adjacency list\nEnter 2 to Exit : ");
    scanf("%d",&ch);
    switch(ch)

{ // program output
    case 1: printgraph(adj);break;

    case 2: break;
}

}

hihile(ch!= 2);

return 0;

// rumusan output edge

void readgraph(struct node *ad[])

{

struct node *newnode;
    int i,j,k,data;

for(i=0;i<no vertices;i++)

}

**Teadgraph(adj);

return 2 exit

int dan 2 exit

case 2 exit

printf("Nn Enter 1 for Print the adjacency list dan 2 exit

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```

A. Output Program

Hasil dari program setisp input data yang dimasukan akan digolongkan di setiap jenis vertex seperti contoh hasil output diatas.