Deore Mufrad Hendrady 1301223029

code header.h

```
1 #ifndef HEADER H INCLUDED
2 #define HEADER H INCLUDED
3 #include <iostream>
   #include <string>
   using namespace std;
   struct jadwalPenerbangan
        string kode,jenis,tanggal,waktu,asal,tujuan,kapasitas;
   };
   typedef struct elmJadwal *adr;
   typedef jadwalPenerbangan infotype;
   struct elmJadwal
       infotype info;
       adr next;
   struct listJadwal
        adr first;
   };
   void createListJadwal 1301223029(listJadwal &l);
   adr createElmJadwal 1301223029(infotype x);
   void insertLast_1301223029(listJadwal &l, adr p);
   void showJadwal_1301223029(listJadwal l);
   void delelteFirst 1301223029(listJadwal &l, adr &p);
    adr searchJ_1301223029(listJadwal l, string asal, string tujuan, string tanggal);
   #endif
```

source.cpp

```
#include "header.h"
    void createListJadwal 1301223029(listJadwal &l){
        1.first =NULL;
    adr createElmJadwal_1301223029(infotype x){
        adr p;
        p = new elmJadwal;
        p \rightarrow info = x;
        p->next = NULL;
        return p;
    void insertLast_1301223029(listJadwal &l, adr p){
        adr q;
        if (l.first == NULL){
            l.first = p;
            q = l.first;
            while(q->next != NULL){
                q= q->next;
            q \rightarrow next = p;
    void showJadwal 1301223029(listJadwal l){
       adr p;
        p = l.first;
        if (l.first == NULL){
            cout << "Jadwal kosong " << endl;</pre>
            while(p != NULL){
                cout << p->info.kode << " " << p->info.jenis << " " << p->info.tanggal << " " <<
                p->info.waktu << " " << p->info.asal << " " << p->info.tujuan << " " << p->info.
                kapasitas << endl;
    void delelteFirst 1301223029(listJadwal &l, adr &p){
        if(l.first == NULL){
            cout << "Jadwal kosong " << endl;</pre>
            p = l.first;
```

main.cpp

```
#include "header.h"
int main(){
   listJadwal j;
   infotype data;
   adr p;
   createListJadwal 1301223029(j);
       cin >>data.kode;
       cin >>data.jenis;
      cin >>data.tanggal;
      cin >>data.waktu;
       cin >>data.asal;
       cin >>data.tujuan;
       cin >>data.kapasitas;
       p = createElmJadwal 1301223029(data);
       insertLast_1301223029(j,p);
   delelteFirst 1301223029(j,p);
   p = searchJ_1301223029(j,"surabaya","malang" , "9_Desember_2022" );
    if (p != NULL){
       cout << p->info.kode << " " << p->info.jenis << " " << p->info.tanggal << " " << p->info.
       waktu << " " << p->info.asal << " " << p->info.tujuan << " " << p->info.kapasitas <<
       endl;
       cout << "Tidak ada " << endl;</pre>
```

output

```
Q > ~/STD-TP/TP-12 > on □ P main ?1

./myprogram

QG680 Airbus_A320 8_Desember_2022 04.55 jakarta denpasar 180

QG250 ATR_72600 9_Desember_2022 12.55 surabaya malang 25

QG250 ATR_72601 9_Desember_2022 19.55 malang surabaya 25

QG250 ATR_72600 9_Desember_2022 12.55 surabaya malang 25
```