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Tugas:

Mengimplementasikan Stack ke dalam pemograman C++ menggunakan algoritma yang telah di sediakan pada file lampiran yang telah di berikan

Note:

Software yang digunakan visual studio 2019.

Source code program:

```
#include <iostream>
#include <conio.h>
using namespace std;
struct Node
    int data;
    Node* link;
};
Node* top = NULL;
bool isempty()
    if (top == NULL)
        return true; else
        return false;
void push(int databaru)
   Node* n = new Node();
    n->data = databaru;
    n->link = top;
    top = n;
void pop()
    if (isempty())
        cout << " Stack Kosong \n";</pre>
    else
        Node* x = top;
        top = top->link;
        delete(x);
    cout << "Data top dihapus \n";</pre>
void tampiltop()
```

```
if (isempty())
    cout << " Stack Kosong \n";</pre>
         cout << " Tampilan data top adalah : " << top->data << "\n";</pre>
int main()
    int pilihan, databaru;
    do
    {
         system("cls");
         cout << "\n Menu : \n" << endl;</pre>
         cout << " 1. Push" << endl;</pre>
         cout << " 2. Pop" << endl;</pre>
         cout << " 3. Tampilkan Top" << endl;</pre>
         cout << " 4. Keluar" << endl;</pre>
         cout << "\n Masukkan Pilihan : ";</pre>
         cin >> pilihan;
         switch (pilihan)
         {
         case 1: system("cls"); {
             cout << " Masukkan Data : ";</pre>
             cin >> databaru;
             push(databaru);
             break;
         }
         case 2: system("cls"); {
             pop();
             break;
         case 3: system("cls"); {
             tampiltop();
             break;
         case 4: system("cls"); {
             return 0;
             break;
         default: system("cls");
             cout << " Maaf, Pilihan yang anda pilih tidak tersedia! \n ";</pre>
         _getch();
    } while (pilihan != NULL);
    return 0;
```

Output Program:

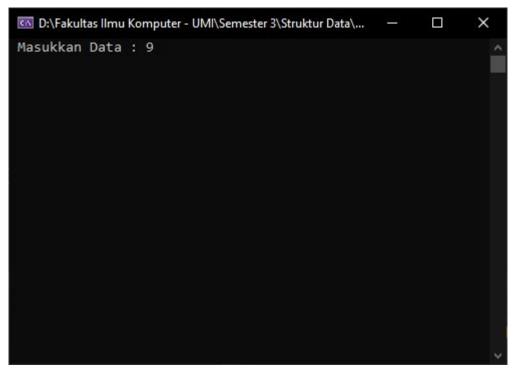
```
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Menu :

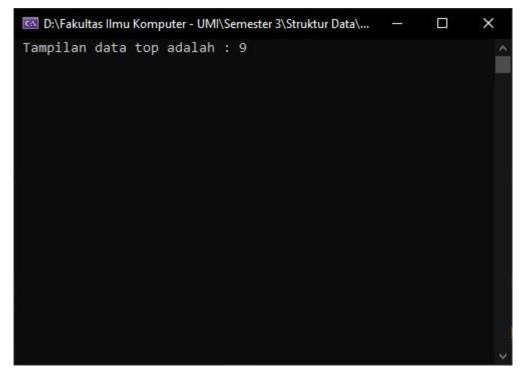
1. Push
2. Pop
3. Tampilkan Top
4. Keluar

Masukkan Pilihan :
```

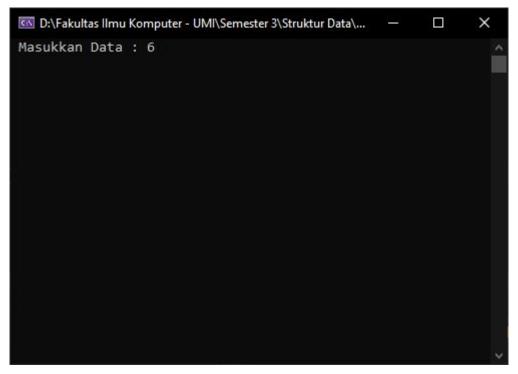
Gambar 1. 1 Tampilan Menu



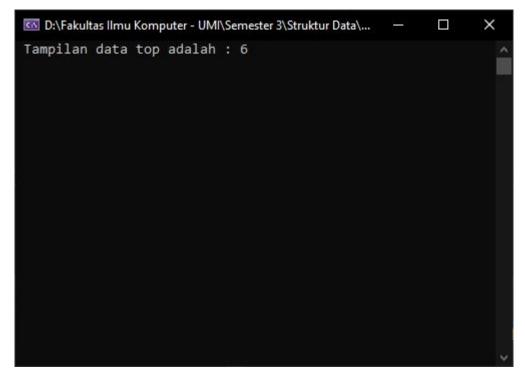
Gambar 1. 2 Push Data Pertama



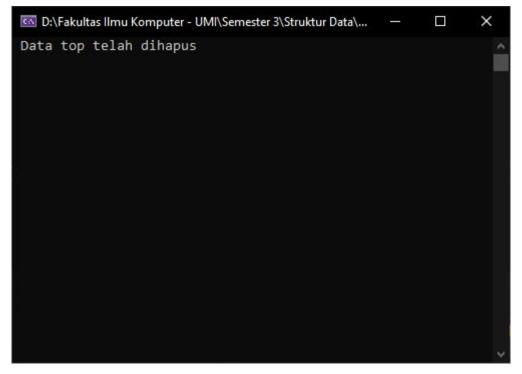
Gambar 1. 3 Tampilan Top



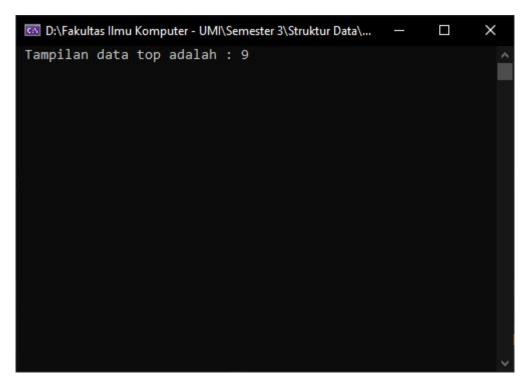
Gambar 1. 4 Push Data Ke-dua



Gambar 1. 5 Tampilan Top



Gambar 1. 6 Pop



Gambar 1. 7 Tampilan Data