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PRAKTIKUM 5

1. #include <bits/stdc++.h>

using namespace std;

// Mendeklrasikan linked list node

struct Node

{

int data;

Node\* link;

};

Node\* top;

// Menambah Data Di Awal

void push(int data)

{

// Membuat Node Baru

Node\* temp = new Node();

if (!temp)

{

cout << "\nStack Overflow";

exit(1);

}

// Inisialisasi Data

temp->data = data;

temp->link = top;

top = temp;

}

int isEmpty()

{

return top == NULL;

}

int peek()

{

if (!isEmpty())

return top->data;

else

exit(1);

}

void pop()

{

Node\* temp;

if (top == NULL)

{

cout << "\nStack Underflow" << endl;

exit(1);

}

else

{

temp = top;

top = top->link;

free(temp);

}

}

void display()

{

Node\* temp;

if (top == NULL)

{

cout << "\nStack Underflow";

exit(1);

}

else

{

temp = top;

while (temp != NULL)

{

// Print node data

cout << temp->data << "-> ";

temp = temp->link;

}

}

}

int main()

{

// Push elemen

push(11);

push(22);

push(33);

push(44);

// Menaampilkan stack elemen

display();

// Print top elemen

cout << "\nTop element is "

<< peek() << endl;

// Menghapus top elemen

pop();

pop();

// Menampilkan stack elemen

display();

// Print top elemen

cout << "\nTop element is "

<< peek() << endl;

return 0;

}

