stack\_07.cpp

**Compile:** g++ stack\_07.cpp -o stack\_07

**Run:** ./stack\_07

**Program:**

#include<iostream>

#define max 100

using namespace std;

int top=-1;

class stack

{

public:

int arr[max], a, size;

void getdata()

{

cout<<"Enter size of array: ";

cin>>size;

cout<<endl;

}

void push()

{

if(top==size-1)

{

cout<<"Stack Overflow..."<<endl;

}

else

{

++top;

cout<<"Insert an element: ";

cin>>a;

arr[top]=a;

cout<<endl;

}

}

void pop()

{

if(top==-1)

{

cout<<"Stack Underflow..."<<endl;

}

else

{

top--;

cout<<"Element Deleted..."<<endl;

}

}

void display()

{

if(top==-1)

{

cout<<"Stack is empty..."<<endl;

}

else

{

cout<<"Elements in the array are: ";

for(int i=0; i<=top; i++)

{

cout<<arr[i]<<" ";

}

cout<<endl;

}

}

};

int main()

{

stack s;

s.getdata();

int n;

n=0;

do

{

cout<<"Stack operation:\n1)Push\n2)Pop\n3)Display\n4)Exit\nSelect an operation: ";

cin>>n;

switch(n)

{

case 1:

s.push();

break;

case 2:

s.pop();

break;

case 3:

s.display();

break;

case 4:

cout<<"Exited..."<<endl;

break;

default:

cout<<"Invalid Input..."<<endl;

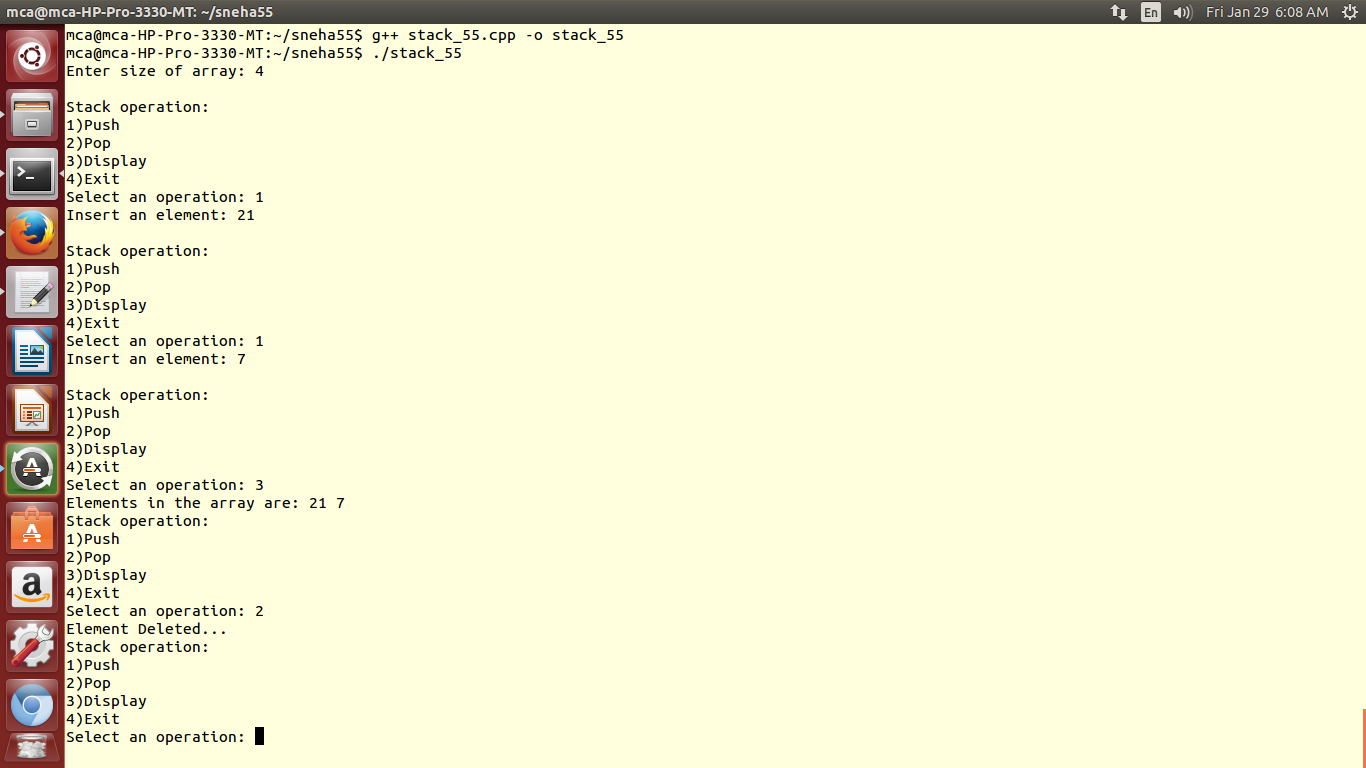
}

}while(n!=4);

return 0;

}

**Output:**

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