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ROLL NO.:14

PRN NO.2023015400005055

1)implementation of program based on stack menu driven

#include <iostream>

using namespace std;

int stack[100], n=100, top=-1;

void push(int val) {

if(top>=n-1)

cout<<"Stack Overflow"<<endl;

else {

top++;

stack[top]=val;

}

}

void pop() {

if(top<=-1)

cout<<"Stack Underflow"<<endl;

else {

cout<<"The popped element is "<< stack[top] <<endl;

top--;

}

}

void display() {

if(top>=0) {

cout<<"Stack elements are:";

for(int i=top; i>=0; i--)

cout<<stack[i]<<" ";

cout<<endl;

} else

cout<<"Stack is empty";

}

int main() {

int ch, val;

cout<<"1) Push in stack"<<endl;

cout<<"2) Pop from stack"<<endl;

cout<<"3) Display stack"<<endl;

cout<<"4) Exit"<<endl;

do {

cout<<"Enter choice: "<<endl;

cin>>ch;

switch(ch) {

case 1: {

cout<<"Enter value to be pushed:"<<endl;

cin>>val;

push(val);

break;

}

case 2: {

pop();

break;

}

case 3: {

display();

break;

}

case 4: {

cout<<"Exit"<<endl;

break;

}

default: {

cout<<"Invalid Choice"<<endl;

}

}

}while(ch!=4);

return 0;

}