**POPPING FROM ARRAY STACK**

#include<iostream.h>

#include<process.h>

int pop(int[],int&);

int push(int[],int&,int);

void display(int[],int);

constint size=50;

void main()

{ int stack[size],item,top=-1,res;

charch='y';

while (ch=='y'||ch=='Y')

{ cout<<"\n enter item for insertion\n";

cin>>item;

res=push(stack,top,item);

if (res==-1)

{

cout<<"\n OVERFLOW!! aborting";

exit(1);}

cout<<"\n the stack now is:\n";

display(stack,top);

cout<<"\n want to insert more elements???\n";

cin>>ch;

}

cout<<"\n now the deletion begins\n";

ch='y';

while(ch=='y'||ch=='Y')

{res=pop(stack,top);

if(res==-1)

{

cout<<"\n underflow\n";

exit(1);

}

else

{

cout<<"\n element deleted is:\n"<<res<<endl;

cout<<"\n the stack now is:\n";

display(stack,top);

}

cout<<"\n want to delete more elemnts\n";

cin>>ch;

}

}

int push(int stack[],int&top,intele)

{if(top==size-1) return-1;

else

{top++;

stack[top]=ele;

}

return 0;

}

int pop(int stack[],int&top)

{

int ret;

if(top==-1) return -1;

else

{ ret=stack[top];

top--;

}

return ret;

}

void display(int stack[],int top)

{if (top==-1) return;

cout<<stack[top]<<"<--"<<endl;

for(int i=top-1;i>=0;i--)

cout<<stack[i]<<endl;

}

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

