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/* Stack lab number 1*/
#include<stdio.h>
#include<conio.h>
#include<process.h>
#define max 5
int tos=-1,stack[max];
void push()
{
    if(tos==max-1)
        printf("Stack is full\n");
    else
    {
        int a;
        printf("Enter the data to push in a stack:");
        scanf("%d",&a);
        tos=tos+1;
        stack[tos]=a;
    }
}
void pop()
{
    if(tos<0)
        printf("Stack is empty\n");
    else
    {
        printf("The data popped from a stack is: %d",stack[tos]);
        tos=tos-1;
    }
}
int main()
{
    int choice;
    clrscr();
    do
    {
        printf("\nEnter your choice \n1.Push \n2.Pop\n3.Exit\n");
        scanf("%d",&choice);
        switch(choice)
        {
            case 1:
                push();
                break;
            case 2:
                pop();
                break;
            case 3:
                exit(0);
        }
    }
}

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        }  
        }while(choice<=3);  
    getch();  
    return 0;  
}
```