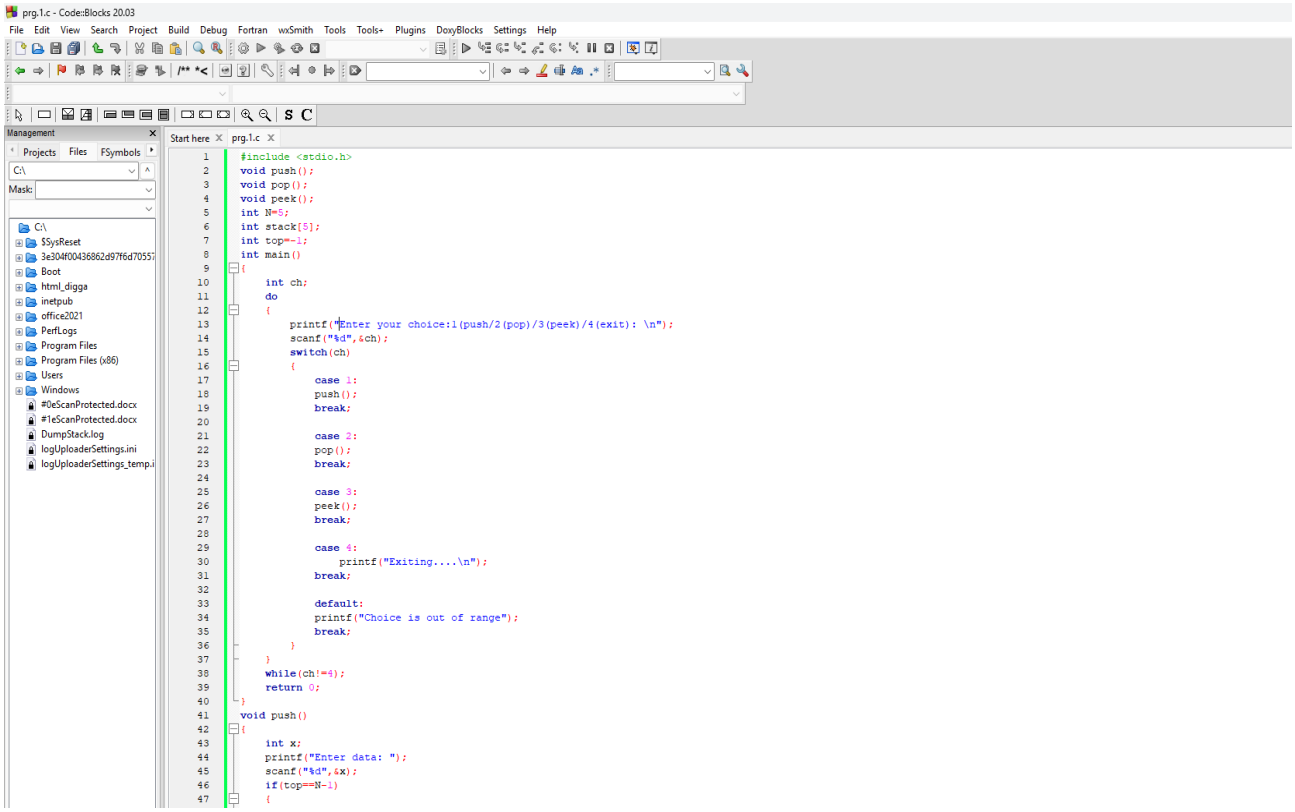
prg.1.c - Codeblocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols
C:\
Mask:
C:\
$SysReset
3e304f00436862d97f6d70557
Boot
html_digga
inetpub
office2021
PerfLogs
Program Files
Program Files (x86)
Users
Windows
#0eScanProtected.docx
#1eScanProtected.docx
DumpStack.log
logUploaderSettings.ini
logUploaderSettings_temp.i
Start here
prg.1.c
#include <stdio.h>
void push();
void pop();
void peek();
int N=5;
int stack[5];
int top=-1;
int main()
{
int ch;
do
{
printf("Enter your choice:1(push/2(pop)/3(peek)/4(exit): \n");
scanf("%d",&ch);
switch(ch)
{
case 1:
push();
break;
case 2:
pop();
break;
case 3:
peek();
break;
case 4:
printf("Exiting....\n");
break;
default:
printf("Choice is out of range");
break;
}
}
while(ch!=4);
return 0;
}
void push()
{
int x;
printf("Enter data: ");
scanf("%d",&x);
if(top==N-1)
{

```
}
void push()
{
    int x;
    printf("Enter data: ");
    scanf("%d",&x);
    if(top==N-1)
    {
        printf("Overflow,cannot enter data\n");
    }
    else
    {
        top++;
        stack[top]=x;
        printf("%d pushed into the stack \n" ,x);
}
}
void pop()
{
    int item;
    if (top==-1)
{
    printf("Underflow,the stack is empty\n");
}
else
{
    item=stack[top];
    top--;
    printf("Popped item: %d\n",item);
}
}
void peek()
{
    if(top==-1)
    {
        printf("Underflow \n");
    }
    else
    {
        printf("Top item: %d",stack[top]);
    }
}
```

```
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
1
Enter data: 2
2 pushed into the stack
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
1
Enter data: 4
4 pushed into the stack
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
1
Enter data: 5
5 pushed into the stack
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
1
Enter data: 7
7 pushed into the stack
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
1
Enter data: 10
10 pushed into the stack
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
1
Enter data: 12
Overflow,cannot enter data
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
2
Popped item: 10
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
2
Popped item: 7
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
2
Popped item: 5
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
2
Popped item: 4
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
2
Popped item: 2
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
2
Underflow,the stack is empty
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
3
Underflow
Enter your choice:1(push/2(pop)/3(peek)/4(exit):
4
Exiting....
```