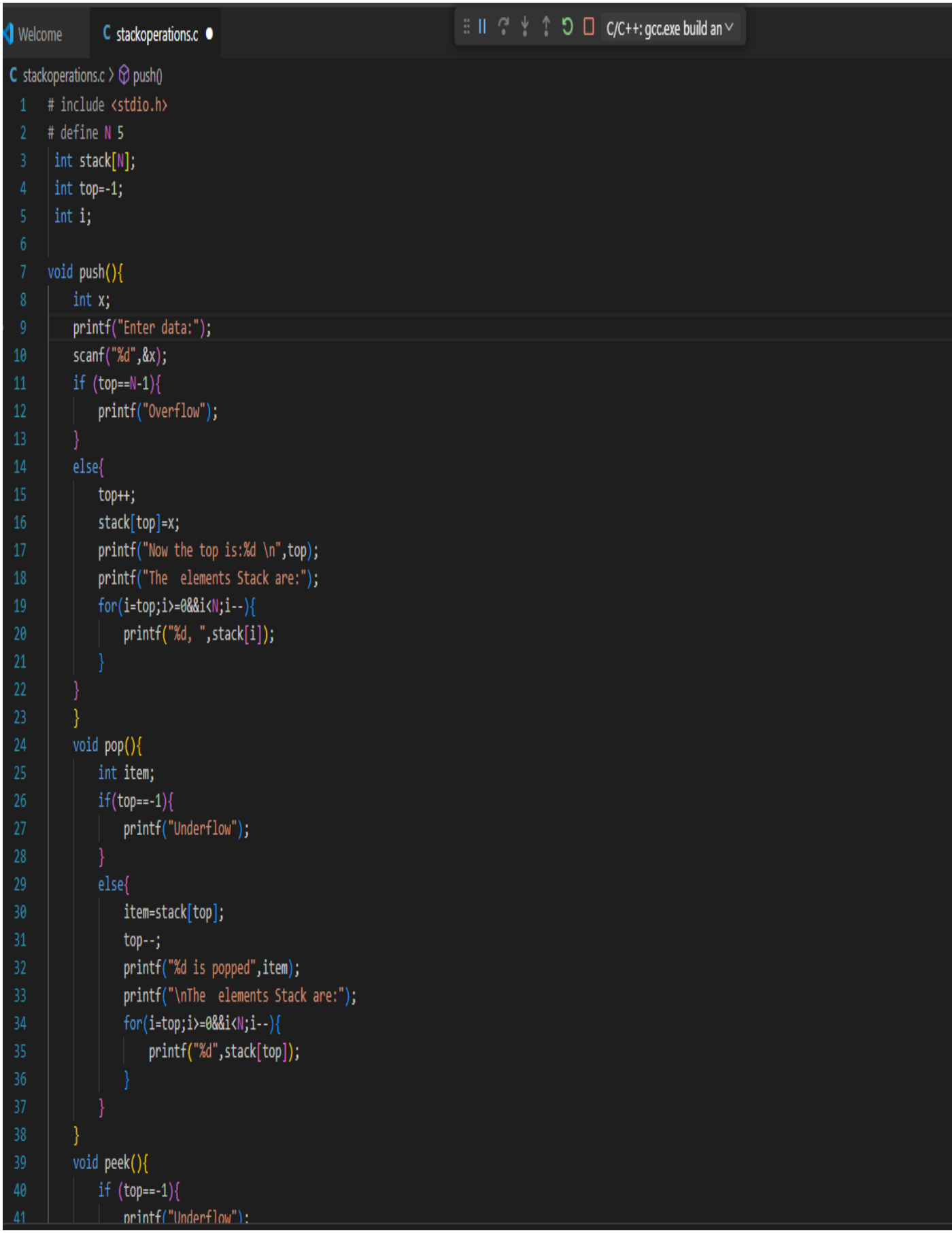
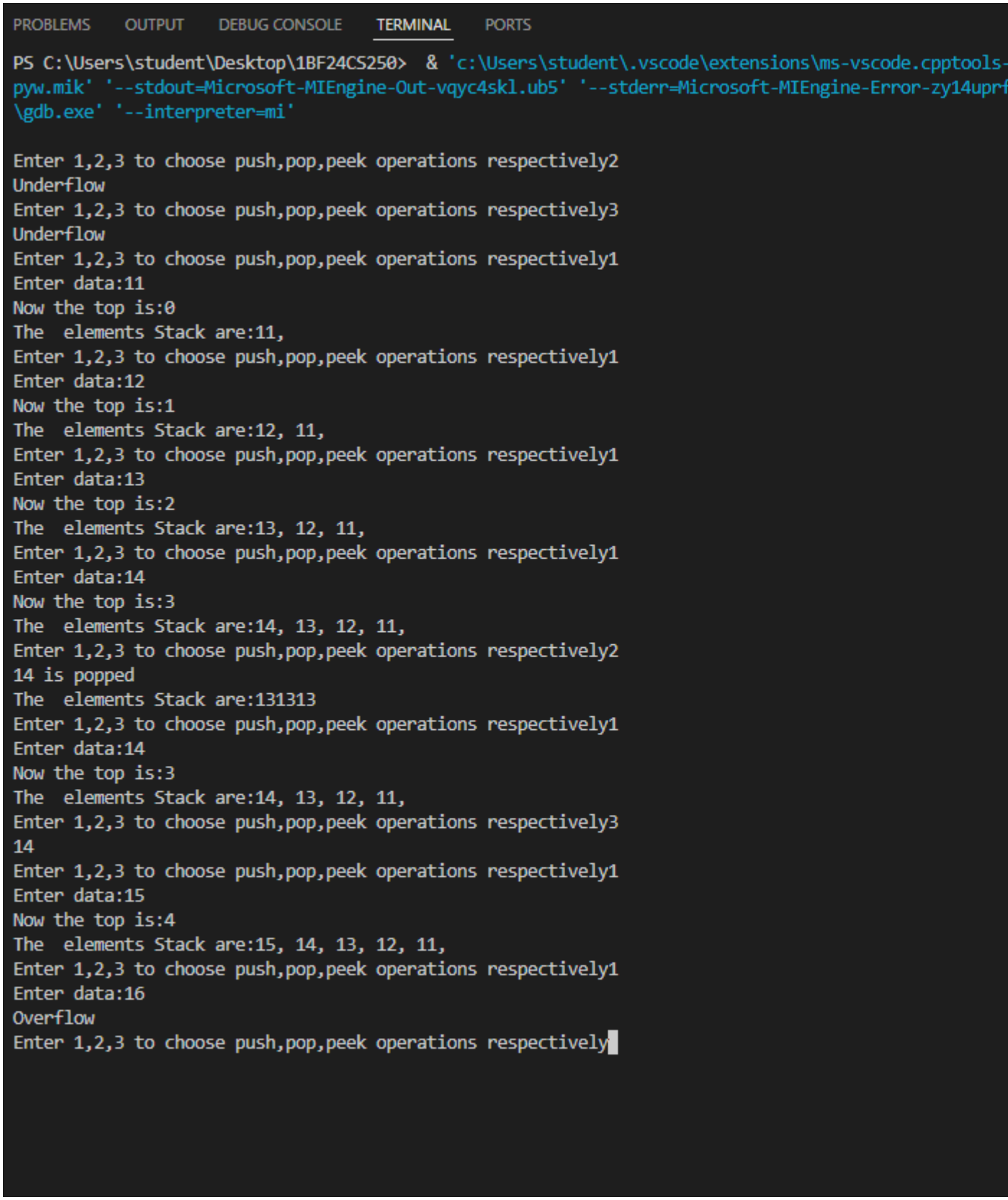

Welcome
stackoperations.c
C/C++: gcc.exe build an
stackoperations.c > push()
include <stdio.h>
define N 5
int stack[N];
int top=-1;
int i;
void push(){
int x;
printf("Enter data:");
scanf("%d",&x);
if (top==N-1){
printf("Overflow");
}
else{
top++;
stack[top]=x;
printf("Now the top is:%d \n",top);
printf("The elements Stack are:");
for(i=top;i>=0&&i<N;i--){
printf("%d, ",stack[i]);
}
}
}
void pop(){
int item;
if(top==-1){
printf("Underflow");
}
else{
item=stack[top];
top--;
printf("%d is popped",item);
printf("\nThe elements Stack are:");
for(i=top;i>=0&&i<N;i--){
printf("%d",stack[top]);
}
}
}
void peek(){
if (top==-1){
printf("Underflow");

Welcome | stackoperations.c ●

stackoperations.c > push()

```
24      void pop(){
39      void peek(){
40          if (top==-1){
41              printf("Underflow");
42
43          }
44          else{
45              printf("%d", stack[top]);
46          }
47      }
48      void main(){
49      int stack[5];
50      int top=-1;
51      int a;
52      do{
53          printf("\nEnter 1,2,3 to choose push,pop,peek operations respectively");
54          scanf("%d",&a);
55          switch(a){
56              case 1:
57                  push();
58                  break;
59              case 2:
60                  pop();
61                  break;
62              case 3:
63                  peek();
64                  break;
65              default:
66                  printf("Invalid input!!");
67                  break;
68          }
69
70      }while(a!=-1);
71
72  }
```


PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
PS C:\Users\student\Desktop\1BF24CS250> & 'c:\Users\student\.vscode\extensions\ms-vscode.cpptools-
pyw.mik' '--stdout=Microsoft-MIEngine-Out-vqyc4skl.ub5' '--stderr=Microsoft-MIEngine-Error-zy14uprf
\gdb.exe' '--interpreter=mi'
Enter 1,2,3 to choose push,pop,peek operations respectively2
Underflow
Enter 1,2,3 to choose push,pop,peek operations respectively3
Underflow
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:11
Now the top is:0
The elements Stack are:11,
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:12
Now the top is:1
The elements Stack are:12, 11,
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:13
Now the top is:2
The elements Stack are:13, 12, 11,
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:14
Now the top is:3
The elements Stack are:14, 13, 12, 11,
Enter 1,2,3 to choose push,pop,peek operations respectively2
14 is popped
The elements Stack are:131313
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:14
Now the top is:3
The elements Stack are:14, 13, 12, 11,
Enter 1,2,3 to choose push,pop,peek operations respectively3
14
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:15
Now the top is:4
The elements Stack are:15, 14, 13, 12, 11,
Enter 1,2,3 to choose push,pop,peek operations respectively1
Enter data:16
Overflow
Enter 1,2,3 to choose push,pop,peek operations respectively