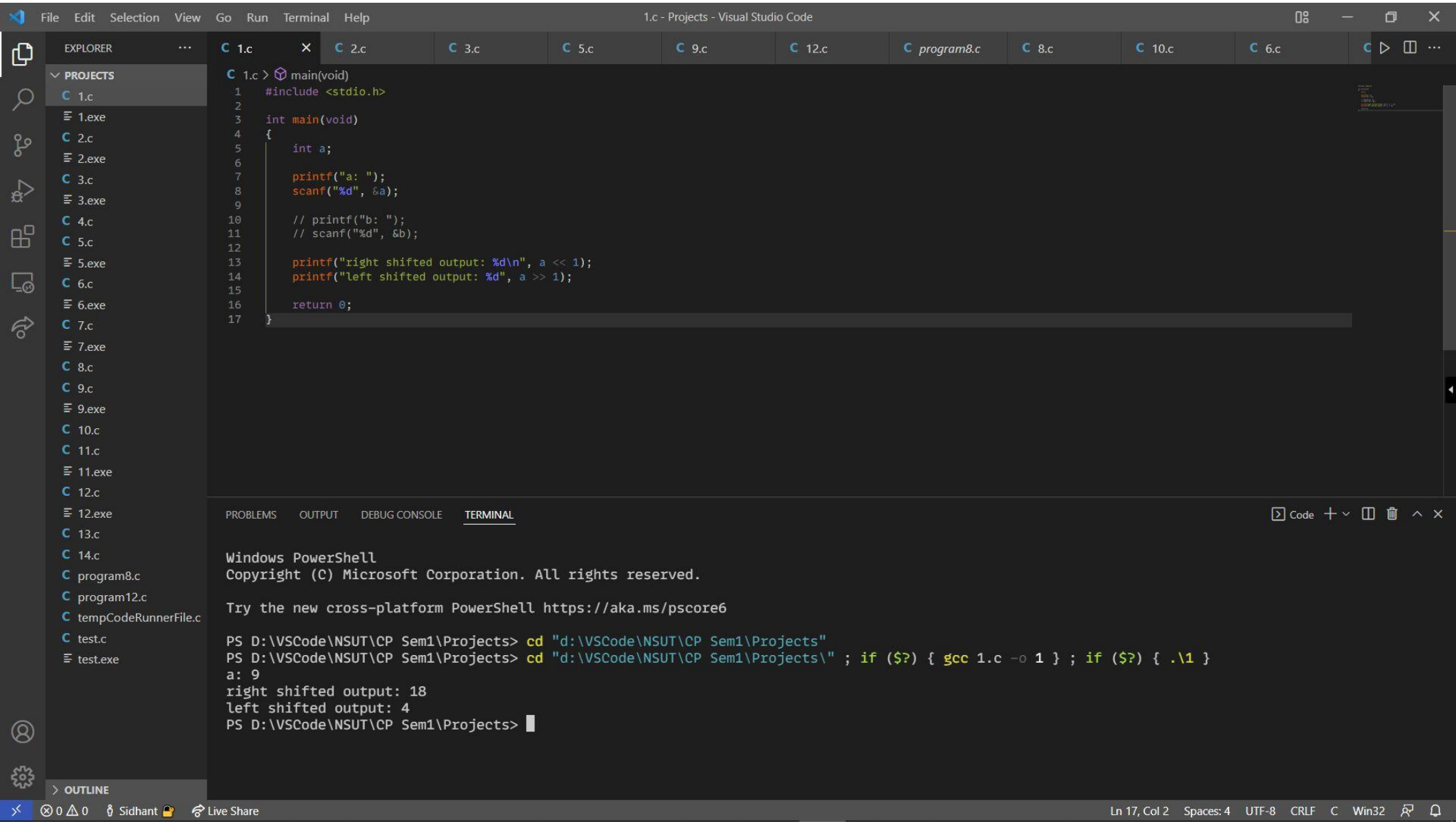
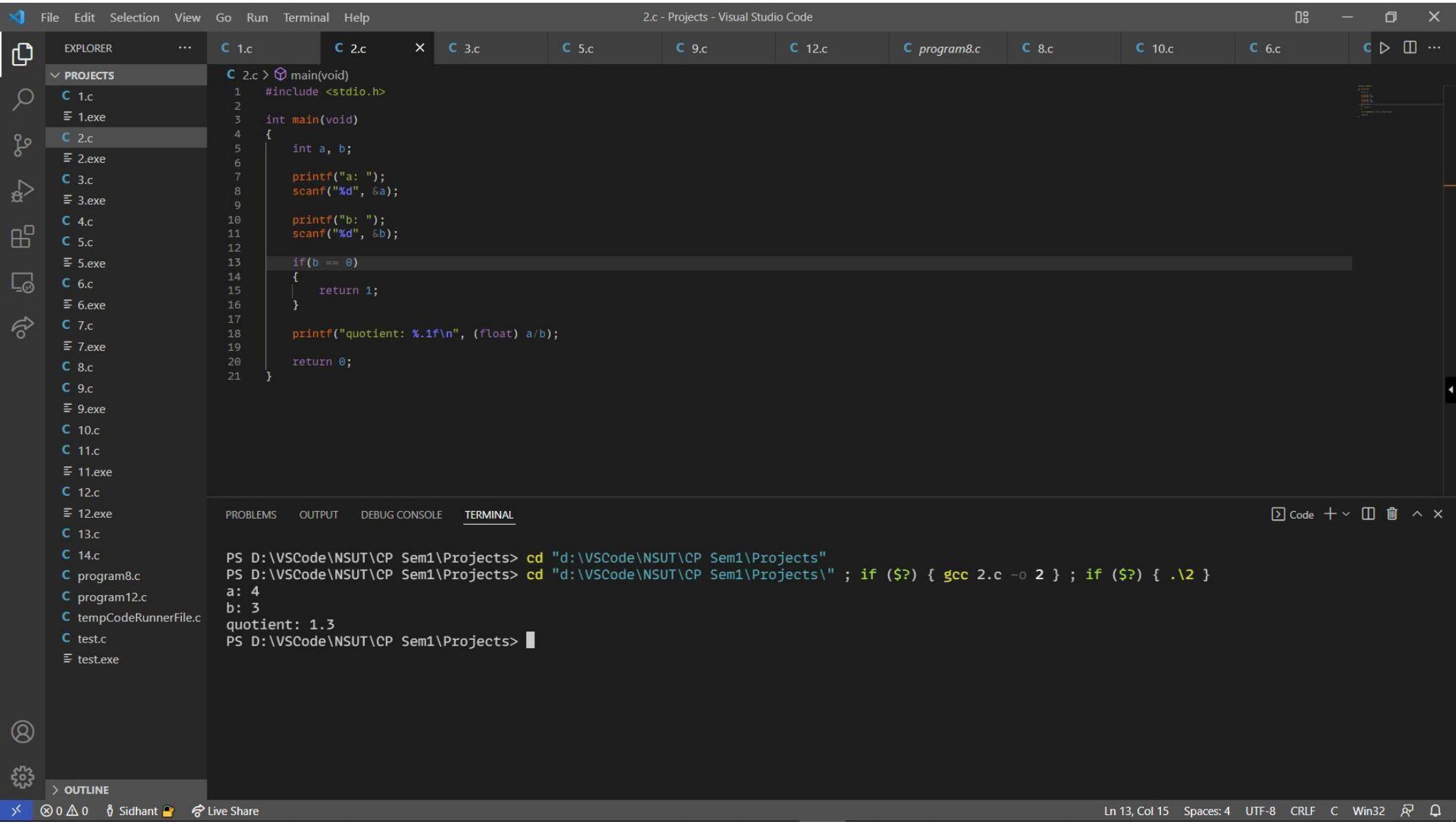
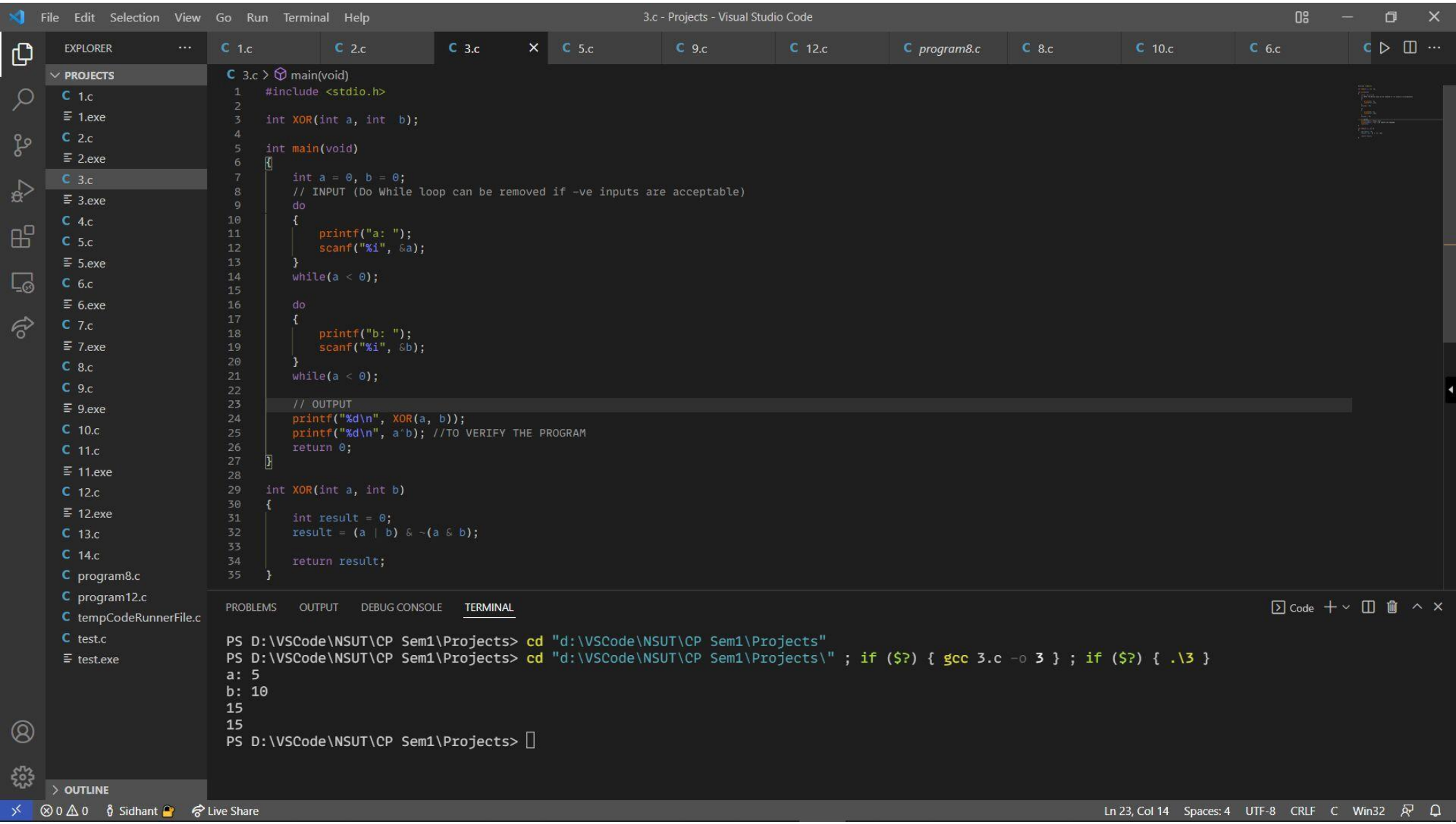
Program 1


File Edit Selection View Go Run Terminal Help
1.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
1.c > main(void)
#include <stdio.h>
int main(void)
{
int a;
printf("a: ");
scanf("%d", &a);
// printf("b: ");
// scanf("%d", &b);
printf("right shifted output: %d\n", a << 1);
printf("left shifted output: %d", a >> 1);
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 1.c -o 1 } ; if ($?) { .\1 }
a: 9
right shifted output: 18
left shifted output: 4
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 17, Col 2 Spaces: 4 UTF-8 CRLF C Win32

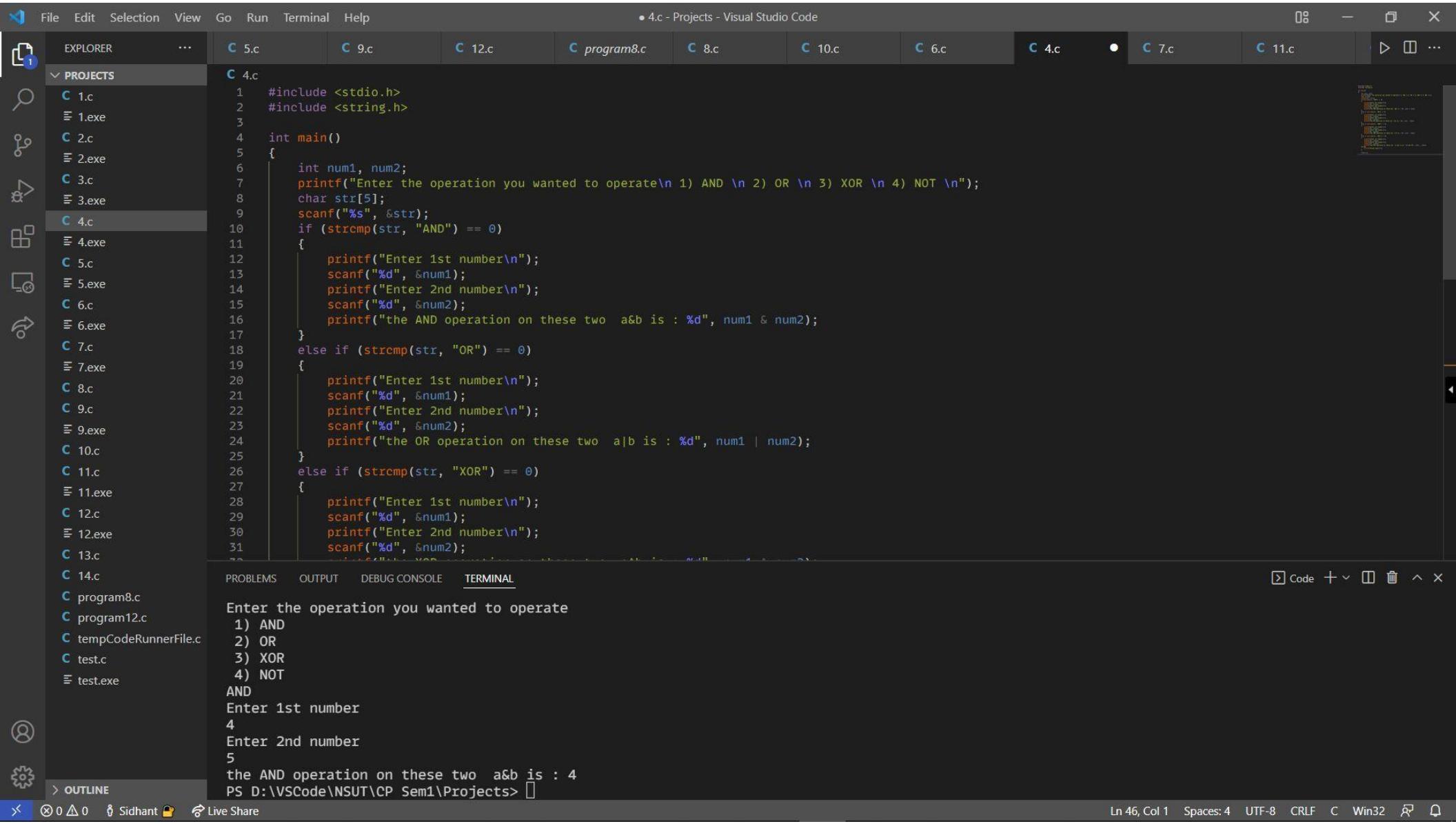
Program 2


File Edit Selection View Go Run Terminal Help
2.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c
2.c
3.c
5.c
9.c
12.c
program8.c
8.c
10.c
6.c
2.c > main(void)
#include <stdio.h>
int main(void)
{
int a, b;
printf("a: ");
scanf("%d", &a);
printf("b: ");
scanf("%d", &b);
if(b == 0)
{
return 1;
}
printf("quotient: %.1f\n", (float) a/b);
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 2.c -o 2 } ; if ($?) { .\2 }
a: 4
b: 3
quotient: 1.3
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0
Sidhant
Live Share
Ln 13, Col 15
Spaces: 4
UTF-8
CRLF
C
Win32

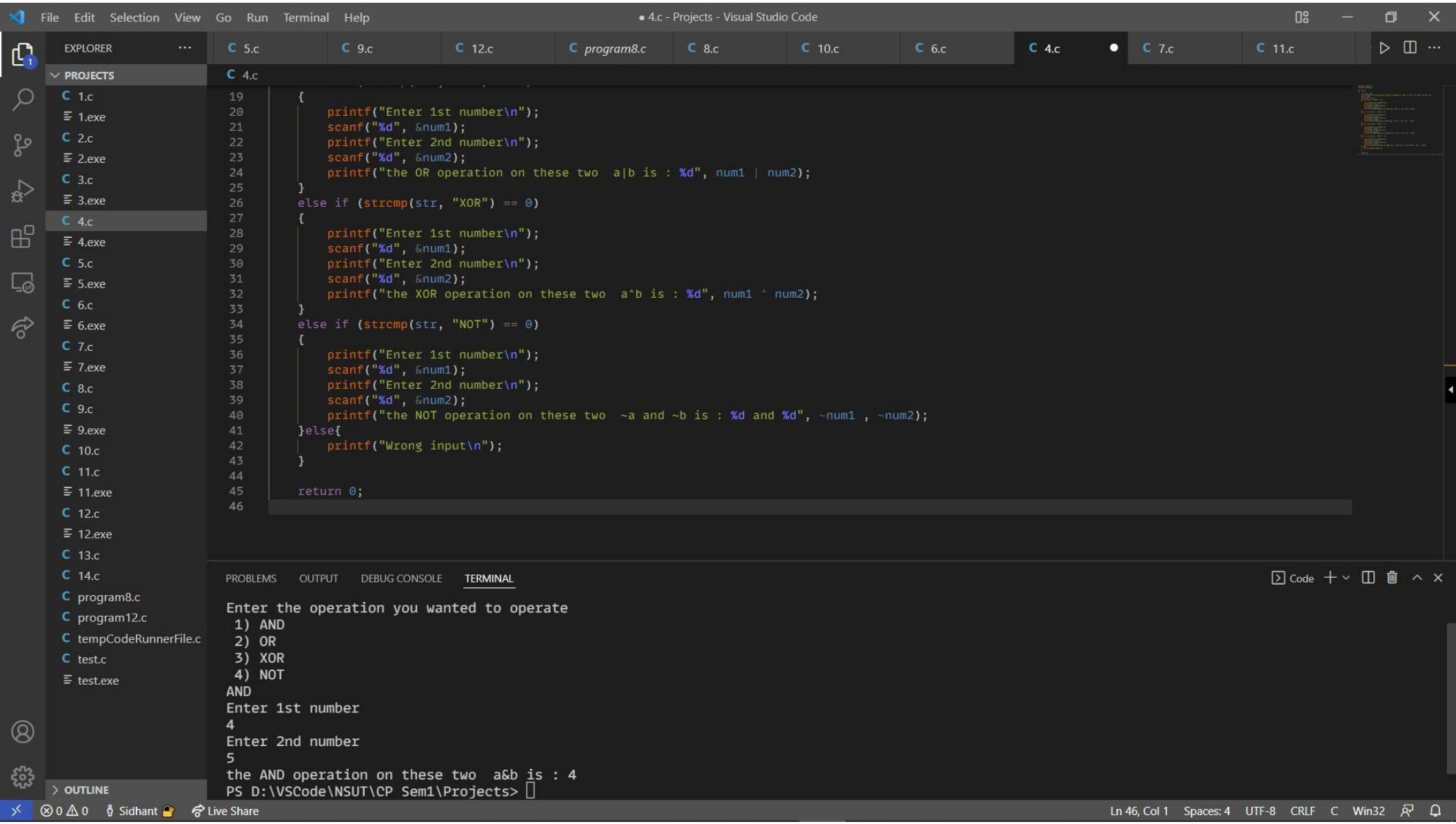
Program 3


File Edit Selection View Go Run Terminal Help
3.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
3.c > main(void)
#include <stdio.h>
int XOR(int a, int b);
int main(void)
{
int a = 0, b = 0;
// INPUT (Do While loop can be removed if -ve inputs are acceptable)
do
{
printf("a: ");
scanf("%i", &a);
}
while(a < 0);
do
{
printf("b: ");
scanf("%i", &b);
}
while(a < 0);
// OUTPUT
printf("%d\n", XOR(a, b));
printf("%d\n", a^b); //TO VERIFY THE PROGRAM
return 0;
}
int XOR(int a, int b)
{
int result = 0;
result = (a | b) & ~(a & b);
return result;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 3.c -o 3 } ; if ($?) { .\3 }
a: 5
b: 10
15
15
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 23, Col 14 Spaces: 4 UTF-8 CRLF C Win32

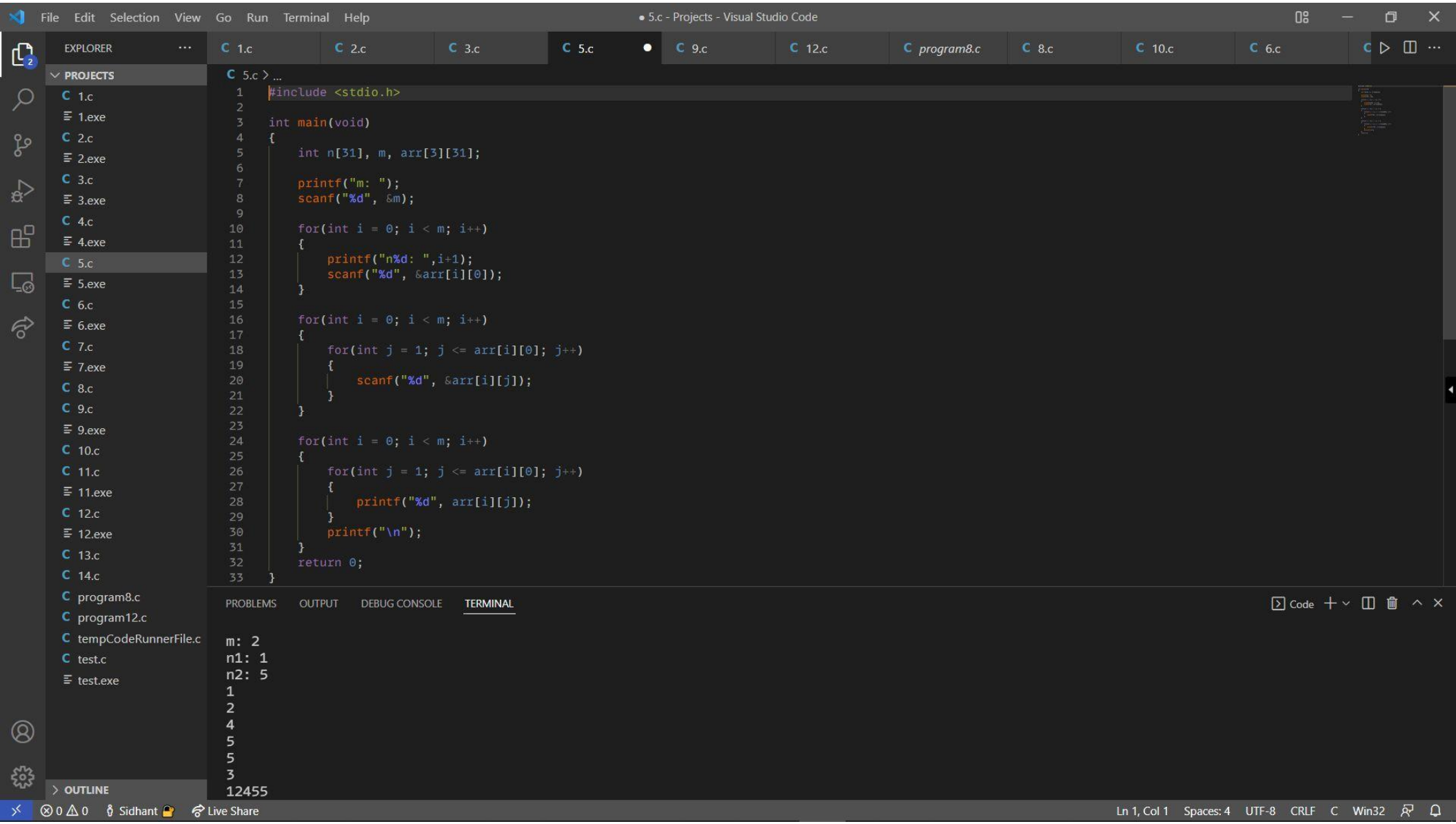
Program 4


File Edit Selection View Go Run Terminal Help
• 4.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
5.c
9.c
12.c
program8.c
8.c
10.c
6.c
4.c
7.c
11.c
4.c
#include <stdio.h>
#include <string.h>
int main()
{
int num1, num2;
printf("Enter the operation you wanted to operate\n 1) AND \n 2) OR \n 3) XOR \n 4) NOT \n");
char str[5];
scanf("%s", &str);
if (strcmp(str, "AND") == 0)
{
printf("Enter 1st number\n");
scanf("%d", &num1);
printf("Enter 2nd number\n");
scanf("%d", &num2);
printf("the AND operation on these two a&b is : %d", num1 & num2);
}
else if (strcmp(str, "OR") == 0)
{
printf("Enter 1st number\n");
scanf("%d", &num1);
printf("Enter 2nd number\n");
scanf("%d", &num2);
printf("the OR operation on these two a|b is : %d", num1 | num2);
}
else if (strcmp(str, "XOR") == 0)
{
printf("Enter 1st number\n");
scanf("%d", &num1);
printf("Enter 2nd number\n");
scanf("%d", &num2);
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter the operation you wanted to operate
1) AND
2) OR
3) XOR
4) NOT
AND
Enter 1st number
4
Enter 2nd number
5
the AND operation on these two a&b is : 4
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 46, Col 1 Spaces: 4 UTF-8 CRLF C Win32

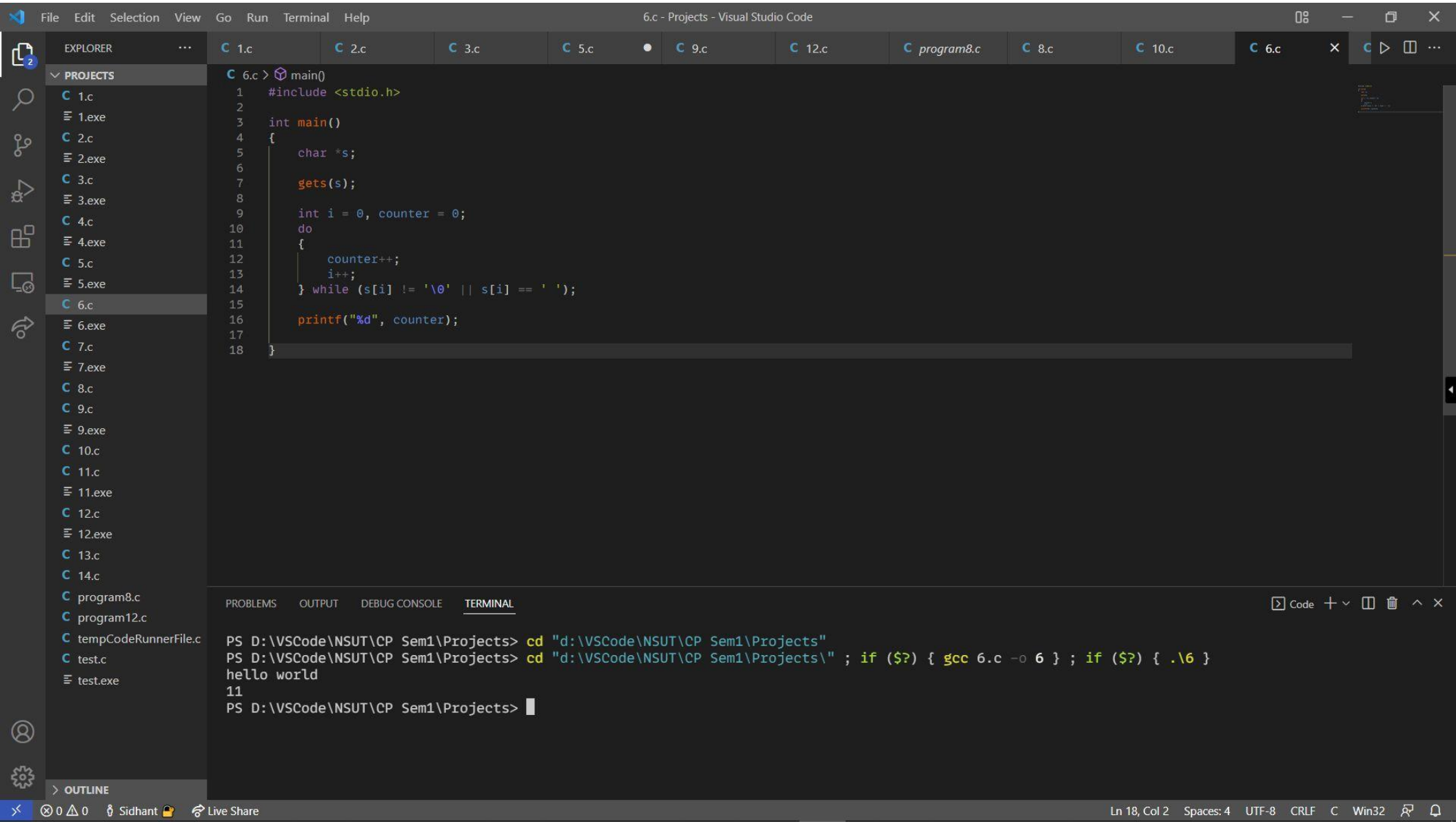
Program 4


File Edit Selection View Go Run Terminal Help
• 4.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
5.c
9.c
12.c
program8.c
8.c
10.c
6.c
4.c
7.c
11.c
4.c
{
printf("Enter 1st number\n");
scanf("%d", &num1);
printf("Enter 2nd number\n");
scanf("%d", &num2);
printf("the OR operation on these two a|b is : %d", num1 | num2);
}
else if (strcmp(str, "XOR") == 0)
{
printf("Enter 1st number\n");
scanf("%d", &num1);
printf("Enter 2nd number\n");
scanf("%d", &num2);
printf("the XOR operation on these two a^b is : %d", num1 ^ num2);
}
else if (strcmp(str, "NOT") == 0)
{
printf("Enter 1st number\n");
scanf("%d", &num1);
printf("Enter 2nd number\n");
scanf("%d", &num2);
printf("the NOT operation on these two ~a and ~b is : %d and %d", ~num1 , ~num2);
}else{
printf("Wrong input\n");
}
return 0;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter the operation you wanted to operate
1) AND
2) OR
3) XOR
4) NOT
AND
Enter 1st number
4
Enter 2nd number
5
the AND operation on these two a&b is : 4
PS D:\VSCode\NSUT\CP Sem1\Projects>
Sidhant
Live Share
Ln 46, Col 1
Spaces: 4
UTF-8
CRLF
C
Win32

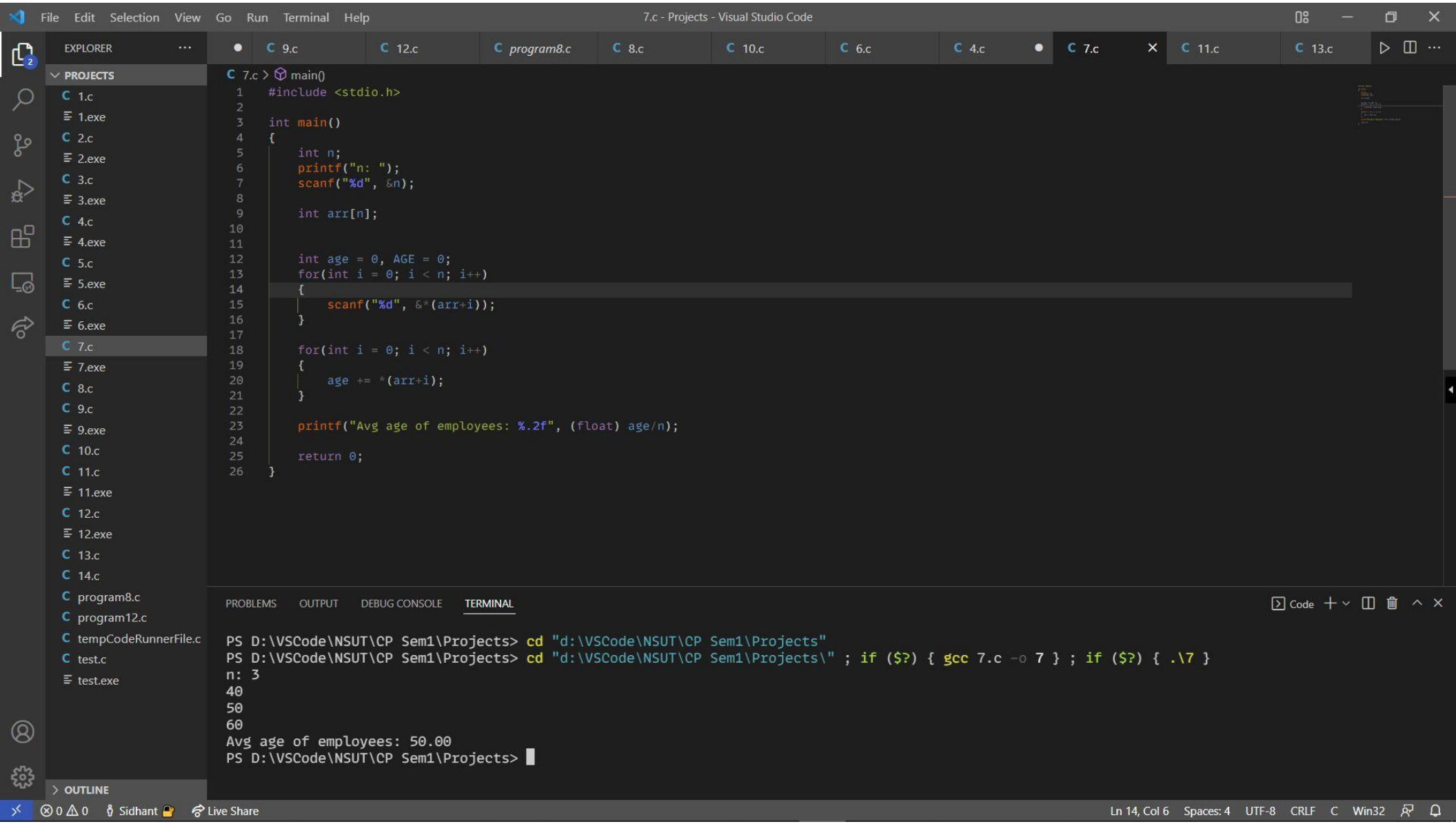
Program 5


File Edit Selection View Go Run Terminal Help
• 5.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
5.c > ...
#include <stdio.h>
int main(void)
{
int n[31], m, arr[3][31];
printf("m: ");
scanf("%d", &m);
for(int i = 0; i < m; i++)
{
printf("n%d: ",i+1);
scanf("%d", &arr[i][0]);
}
for(int i = 0; i < m; i++)
{
for(int j = 1; j <= arr[i][0]; j++)
{
scanf("%d", &arr[i][j]);
}
}
for(int i = 0; i < m; i++)
{
for(int j = 1; j <= arr[i][0]; j++)
{
printf("%d", arr[i][j]);
}
printf("\n");
}
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
m: 2
n1: 1
n2: 5
1
2
4
5
5
3
12455
0 0 Sidhant Live Share
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF C Win32

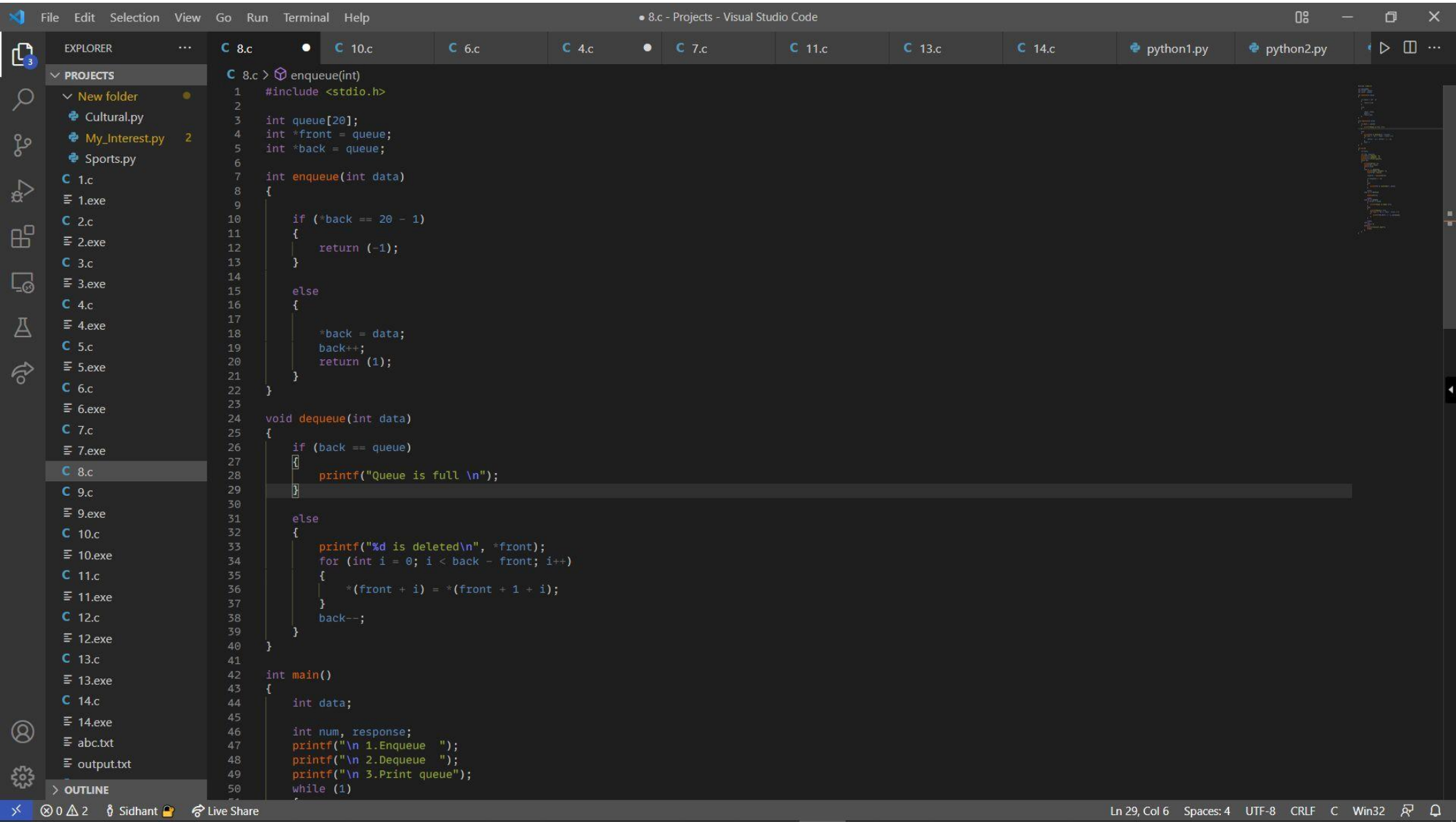
Program 6


File Edit Selection View Go Run Terminal Help
6.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
6.c > main()
#include <stdio.h>
int main()
{
char *s;
gets(s);
int i = 0, counter = 0;
do
{
counter++;
i++;
} while (s[i] != '\0' || s[i] == ' ');
printf("%d", counter);
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
hello world
11
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 18, Col 2 Spaces: 4 UTF-8 CRLF C Win32

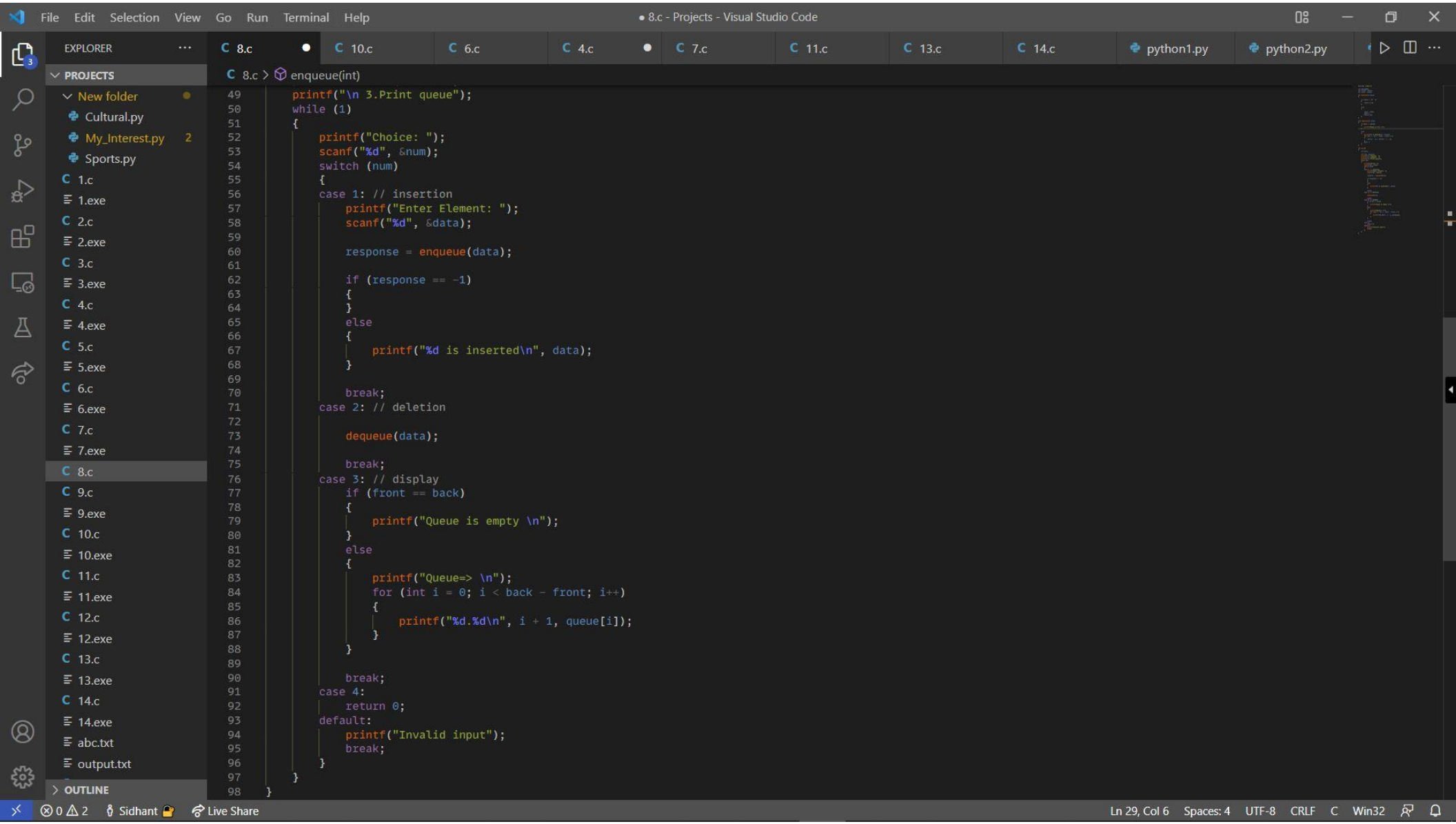
Program 7


File Edit Selection View Go Run Terminal Help
7.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
9.c
12.c
program8.c
8.c
10.c
6.c
4.c
7.c
11.c
13.c
7.c > main()
#include <stdio.h>
int main()
{
int n;
printf("n: ");
scanf("%d", &n);
int arr[n];
int age = 0, AGE = 0;
for(int i = 0; i < n; i++)
{
scanf("%d", &*(arr+i));
}
for(int i = 0; i < n; i++)
{
age += *(arr+i);
}
printf("Avg age of employees: %.2f", (float) age/n);
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 7.c -o 7 } ; if ($?) { .\7 }
n: 3
40
50
60
Avg age of employees: 50.00
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 14, Col 6 Spaces: 4 UTF-8 CRLF C Win32

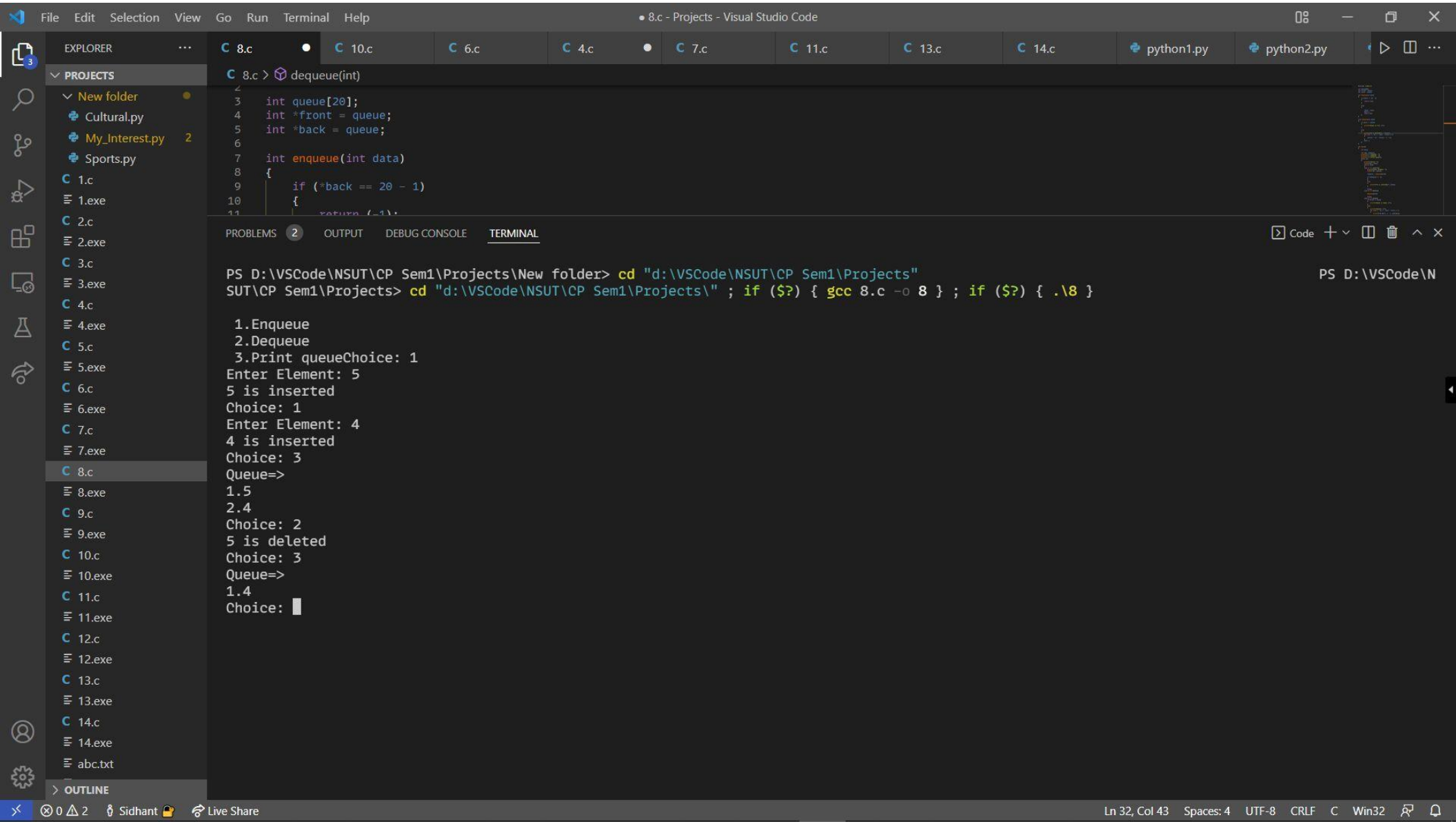
Program 8


File Edit Selection View Go Run Terminal Help
• 8.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
New folder
Cultural.py
My_Interest.py 2
Sports.py
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
13.exe
14.c
14.exe
abc.txt
output.txt
OUTLINE
8.c
10.c
6.c
4.c
7.c
11.c
13.c
14.c
python1.py
python2.py
8.c > enqueue(int)
#include <stdio.h>
int queue[20];
int *front = queue;
int *back = queue;
int enqueue(int data)
{
if (*back == 20 - 1)
{
return (-1);
}
else
{
*back = data;
back++;
return (1);
}
}
void dequeue(int data)
{
if (back == queue)
{
printf("Queue is full \n");
}
else
{
printf("%d is deleted\n", *front);
for (int i = 0; i < back - front; i++)
{
*(front + i) = *(front + 1 + i);
}
back--;
}
}
int main()
{
int data;
int num, response;
printf("\n 1.Enqueue ");
printf("\n 2.Dequeue ");
printf("\n 3.Print queue");
while (1)
0 2 Sidhant Live Share
Ln 29, Col 6 Spaces: 4 UTF-8 CRLF C Win32

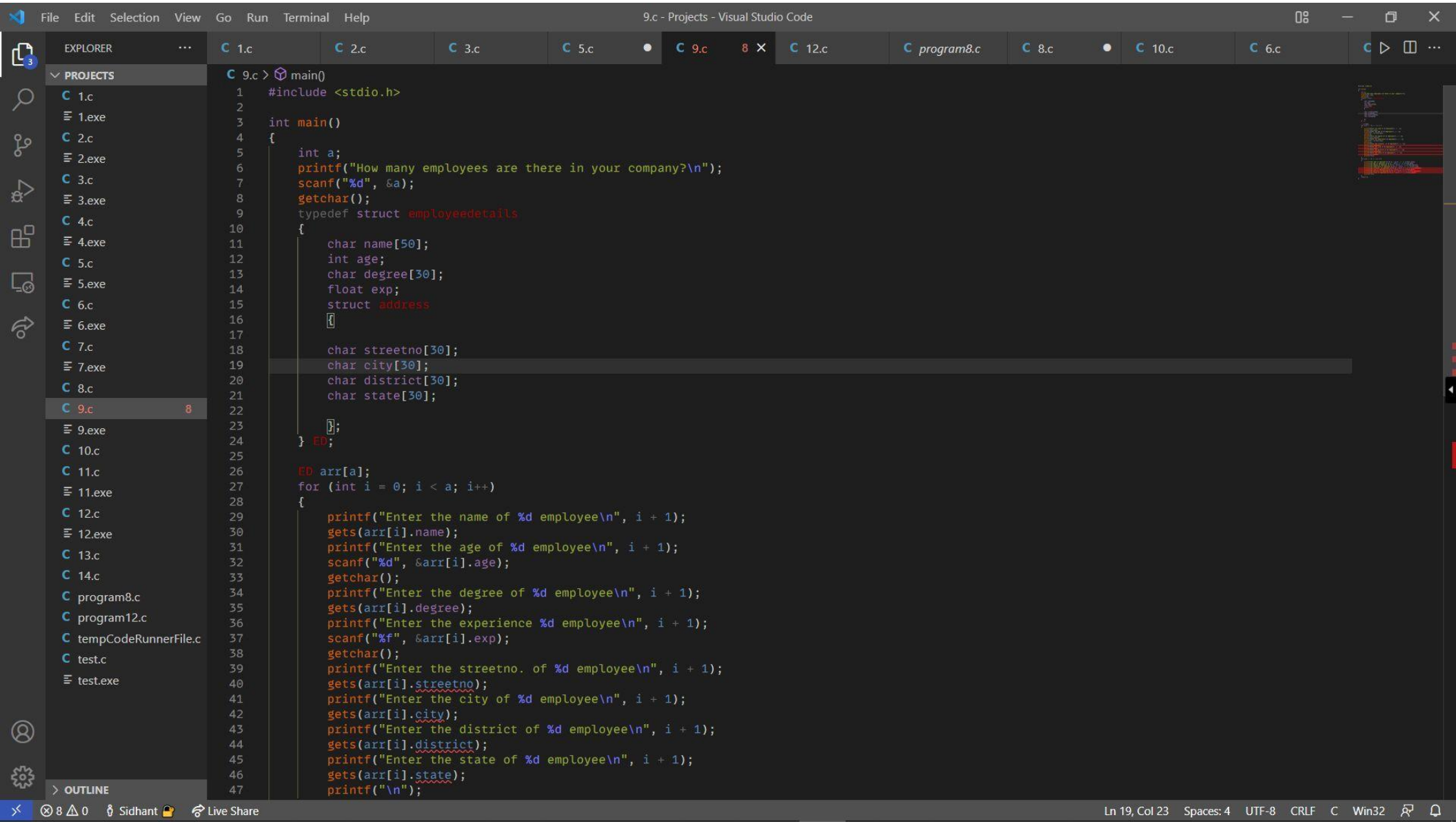
Program 8


File Edit Selection View Go Run Terminal Help
• 8.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
New folder
Cultural.py
My_Interest.py 2
Sports.py
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
13.exe
14.c
14.exe
abc.txt
output.txt
OUTLINE
8.c
10.c
6.c
4.c
7.c
11.c
13.c
14.c
python1.py
python2.py
8.c > enqueue(int)
printf("\n 3.Print queue");
while (1)
{
printf("Choice: ");
scanf("%d", &num);
switch (num)
{
case 1: // insertion
printf("Enter Element: ");
scanf("%d", &data);
response = enqueue(data);
if (response == -1)
{
}
else
{
printf("%d is inserted\n", data);
}
break;
case 2: // deletion
dequeue(data);
break;
case 3: // display
if (front == back)
{
printf("Queue is empty \n");
}
else
{
printf("Queue=> \n");
for (int i = 0; i < back - front; i++)
{
printf("%d.%d\n", i + 1, queue[i]);
}
}
break;
case 4:
return 0;
default:
printf("Invalid input");
break;
}
}
0 2 Sidhant Live Share
Ln 29, Col 6 Spaces: 4 UTF-8 CRLF C Win32

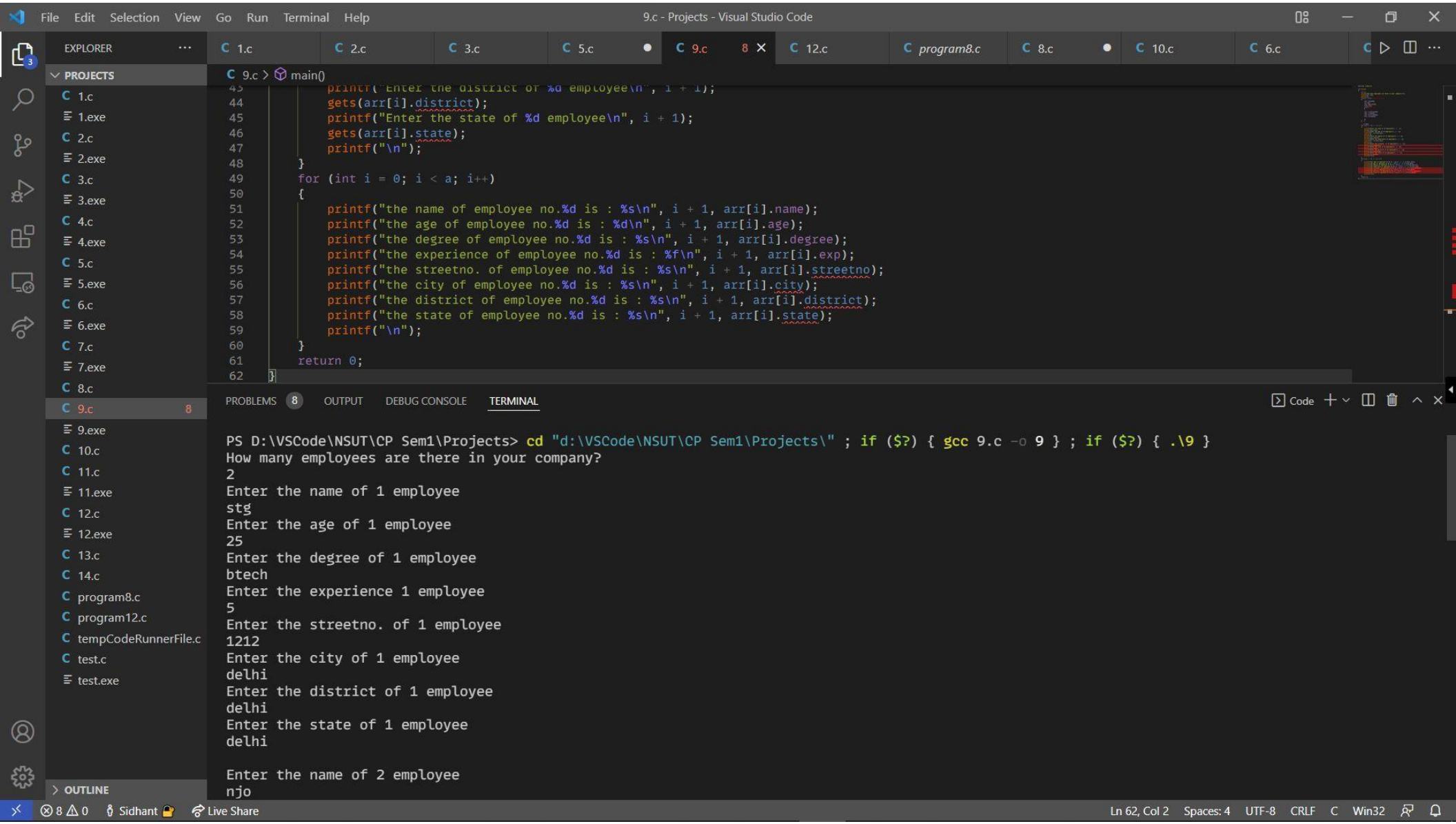
Program 8


File Edit Selection View Go Run Terminal Help
• 8.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
New folder
Cultural.py
My_Interest.py 2
Sports.py
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
8.exe
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
13.exe
14.c
14.exe
abc.txt
OUTLINE
8.c
10.c
6.c
4.c
7.c
11.c
13.c
14.c
python1.py
python2.py
8.c > dequeue(int)
int queue[20];
int *front = queue;
int *back = queue;
int enqueue(int data)
{
if (*back == 20 - 1)
{
PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects\New folder> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\N
SUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 8.c -o 8 } ; if ($?) { .\8 }
1.Enqueue
2.Dequeue
3.Print queueChoice: 1
Enter Element: 5
5 is inserted
Choice: 1
Enter Element: 4
4 is inserted
Choice: 3
Queue=>
1.5
2.4
Choice: 2
5 is deleted
Choice: 3
Queue=>
1.4
Choice:
0 2
Sidhant
Live Share
Ln 32, Col 43
Spaces: 4
UTF-8
CRLF
C
Win32

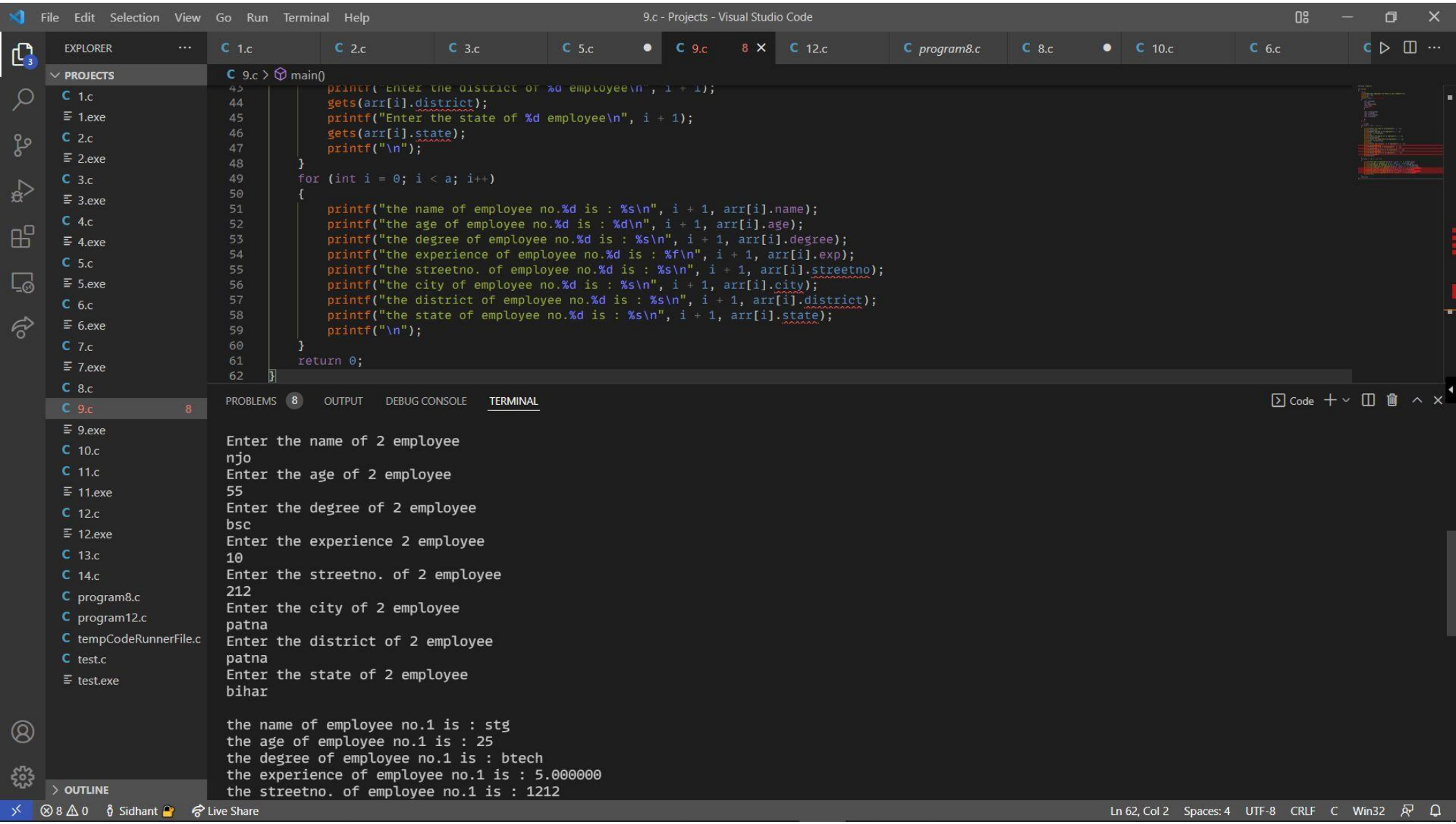
Program 9


File Edit Selection View Go Run Terminal Help
9.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c 8
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 8 12.c program8.c 8.c 10.c 6.c
9.c > main()
#include <stdio.h>
int main()
{
int a;
printf("How many employees are there in your company?\n");
scanf("%d", &a);
getchar();
typedef struct employeedetails
{
char name[50];
int age;
char degree[30];
float exp;
struct address
{
char streetno[30];
char city[30];
char district[30];
char state[30];
};
} ED;
ED arr[a];
for (int i = 0; i < a; i++)
{
printf("Enter the name of %d employee\n", i + 1);
gets(arr[i].name);
printf("Enter the age of %d employee\n", i + 1);
scanf("%d", &arr[i].age);
getchar();
printf("Enter the degree of %d employee\n", i + 1);
gets(arr[i].degree);
printf("Enter the experience %d employee\n", i + 1);
scanf("%f", &arr[i].exp);
getchar();
printf("Enter the streetno. of %d employee\n", i + 1);
gets(arr[i].streetno);
printf("Enter the city of %d employee\n", i + 1);
gets(arr[i].city);
printf("Enter the district of %d employee\n", i + 1);
gets(arr[i].district);
printf("Enter the state of %d employee\n", i + 1);
gets(arr[i].state);
printf("\n");
8 0 Sidhant Live Share
Ln 19, Col 23 Spaces: 4 UTF-8 CRLF C Win32

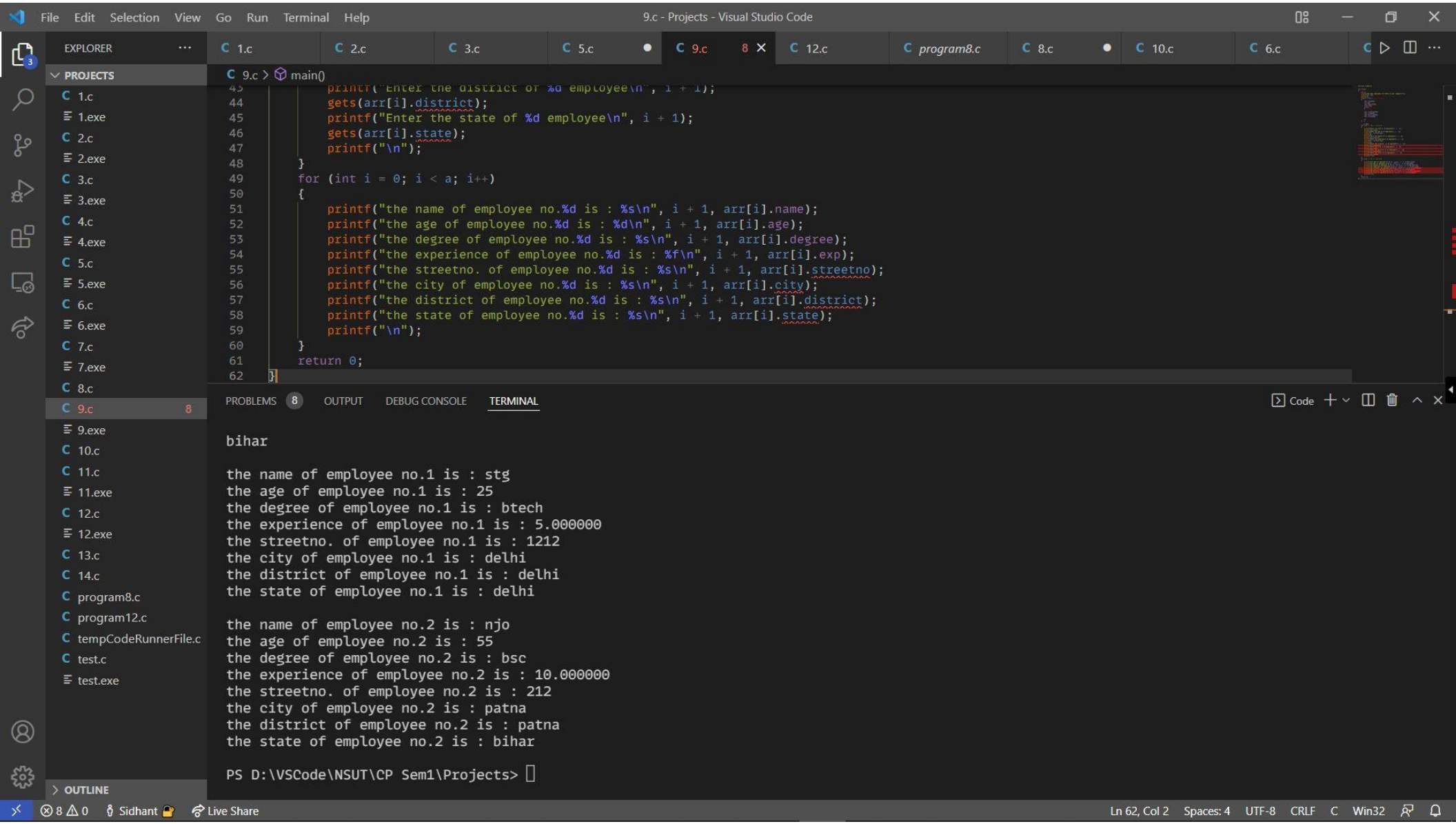
Program 9


File Edit Selection View Go Run Terminal Help
9.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
9.c > main()
printf("Enter the district of %d employee\n", i + 1);
gets(arr[i].district);
printf("Enter the state of %d employee\n", i + 1);
gets(arr[i].state);
printf("\n");
}
for (int i = 0; i < a; i++)
{
printf("the name of employee no.%d is : %s\n", i + 1, arr[i].name);
printf("the age of employee no.%d is : %d\n", i + 1, arr[i].age);
printf("the degree of employee no.%d is : %s\n", i + 1, arr[i].degree);
printf("the experience of employee no.%d is : %f\n", i + 1, arr[i].exp);
printf("the streetno. of employee no.%d is : %s\n", i + 1, arr[i].streetno);
printf("the city of employee no.%d is : %s\n", i + 1, arr[i].city);
printf("the district of employee no.%d is : %s\n", i + 1, arr[i].district);
printf("the state of employee no.%d is : %s\n", i + 1, arr[i].state);
printf("\n");
}
return 0;
}
PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 9.c -o 9 } ; if ($?) { .\9 }
How many employees are there in your company?
2
Enter the name of 1 employee
stg
Enter the age of 1 employee
25
Enter the degree of 1 employee
btech
Enter the experience 1 employee
5
Enter the streetno. of 1 employee
1212
Enter the city of 1 employee
delhi
Enter the district of 1 employee
delhi
Enter the state of 1 employee
delhi
Enter the name of 2 employee
njo
8 0 Sidhant Live Share
Ln 62, Col 2 Spaces: 4 UTF-8 CRLF C Win32

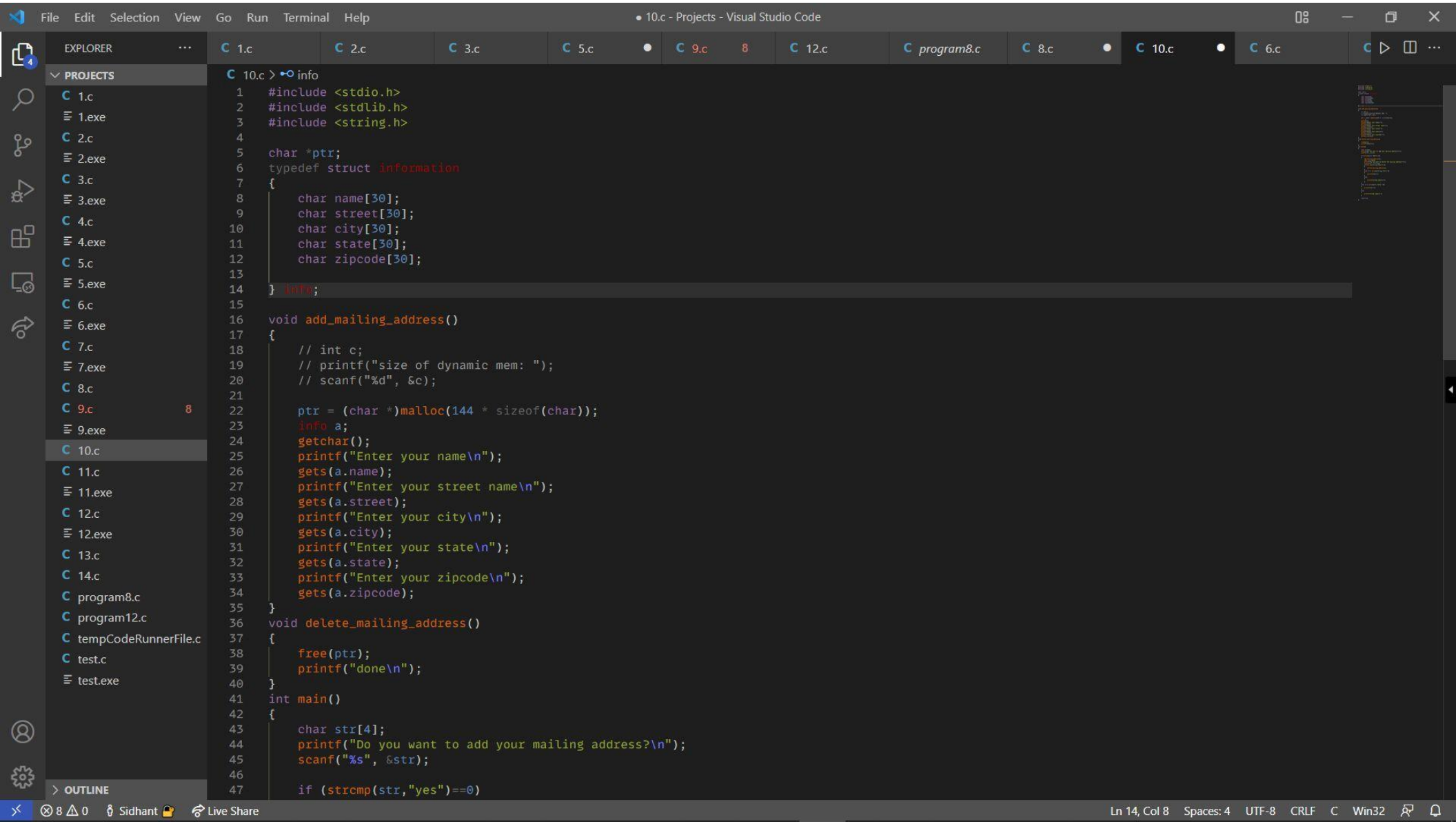
Program 9


File Edit Selection View Go Run Terminal Help
9.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c 8
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 8 12.c program8.c 8.c 10.c 6.c
9.c > main()
printf("Enter the district of %d employee\n", i + 1);
gets(arr[i].district);
printf("Enter the state of %d employee\n", i + 1);
gets(arr[i].state);
printf("\n");
}
for (int i = 0; i < a; i++)
{
printf("the name of employee no.%d is : %s\n", i + 1, arr[i].name);
printf("the age of employee no.%d is : %d\n", i + 1, arr[i].age);
printf("the degree of employee no.%d is : %s\n", i + 1, arr[i].degree);
printf("the experience of employee no.%d is : %f\n", i + 1, arr[i].exp);
printf("the streetno. of employee no.%d is : %s\n", i + 1, arr[i].streetno);
printf("the city of employee no.%d is : %s\n", i + 1, arr[i].city);
printf("the district of employee no.%d is : %s\n", i + 1, arr[i].district);
printf("the state of employee no.%d is : %s\n", i + 1, arr[i].state);
printf("\n");
}
return 0;
}
PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL
Code
Enter the name of 2 employee
njo
Enter the age of 2 employee
55
Enter the degree of 2 employee
bsc
Enter the experience 2 employee
10
Enter the streetno. of 2 employee
212
Enter the city of 2 employee
patna
Enter the district of 2 employee
patna
Enter the state of 2 employee
bihar
the name of employee no.1 is : stg
the age of employee no.1 is : 25
the degree of employee no.1 is : btech
the experience of employee no.1 is : 5.000000
the streetno. of employee no.1 is : 1212
8 0 Sidhant Live Share
Ln 62, Col 2 Spaces: 4 UTF-8 CRLF C Win32

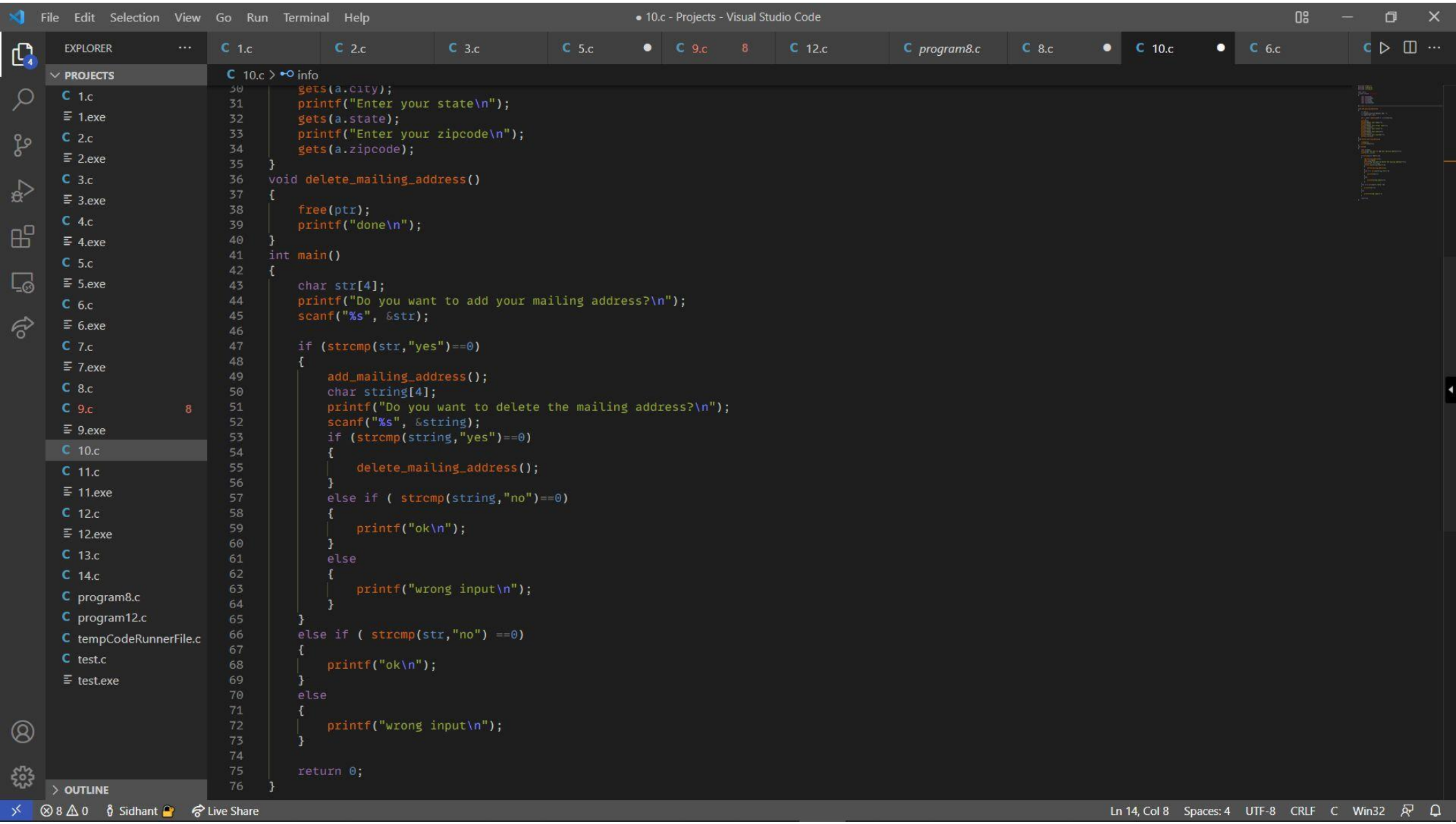
Program 9


File Edit Selection View Go Run Terminal Help
9.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
9.c > main()
printf("Enter the district of %d employee\n", i + 1);
gets(arr[i].district);
printf("Enter the state of %d employee\n", i + 1);
gets(arr[i].state);
printf("\n");
}
for (int i = 0; i < a; i++)
{
printf("the name of employee no.%d is : %s\n", i + 1, arr[i].name);
printf("the age of employee no.%d is : %d\n", i + 1, arr[i].age);
printf("the degree of employee no.%d is : %s\n", i + 1, arr[i].degree);
printf("the experience of employee no.%d is : %f\n", i + 1, arr[i].exp);
printf("the streetno. of employee no.%d is : %s\n", i + 1, arr[i].streetno);
printf("the city of employee no.%d is : %s\n", i + 1, arr[i].city);
printf("the district of employee no.%d is : %s\n", i + 1, arr[i].district);
printf("the state of employee no.%d is : %s\n", i + 1, arr[i].state);
printf("\n");
}
return 0;
}
PROBLEMS 8 OUTPUT DEBUG CONSOLE TERMINAL
Code
bihar
the name of employee no.1 is : stg
the age of employee no.1 is : 25
the degree of employee no.1 is : btech
the experience of employee no.1 is : 5.000000
the streetno. of employee no.1 is : 1212
the city of employee no.1 is : delhi
the district of employee no.1 is : delhi
the state of employee no.1 is : delhi
the name of employee no.2 is : njo
the age of employee no.2 is : 55
the degree of employee no.2 is : bsc
the experience of employee no.2 is : 10.000000
the streetno. of employee no.2 is : 212
the city of employee no.2 is : patna
the district of employee no.2 is : patna
the state of employee no.2 is : bihar
PS D:\VSCode\NSUT\CP Sem1\Projects>
8 0 Sidhant Live Share
Ln 62, Col 2 Spaces: 4 UTF-8 CRLF C Win32

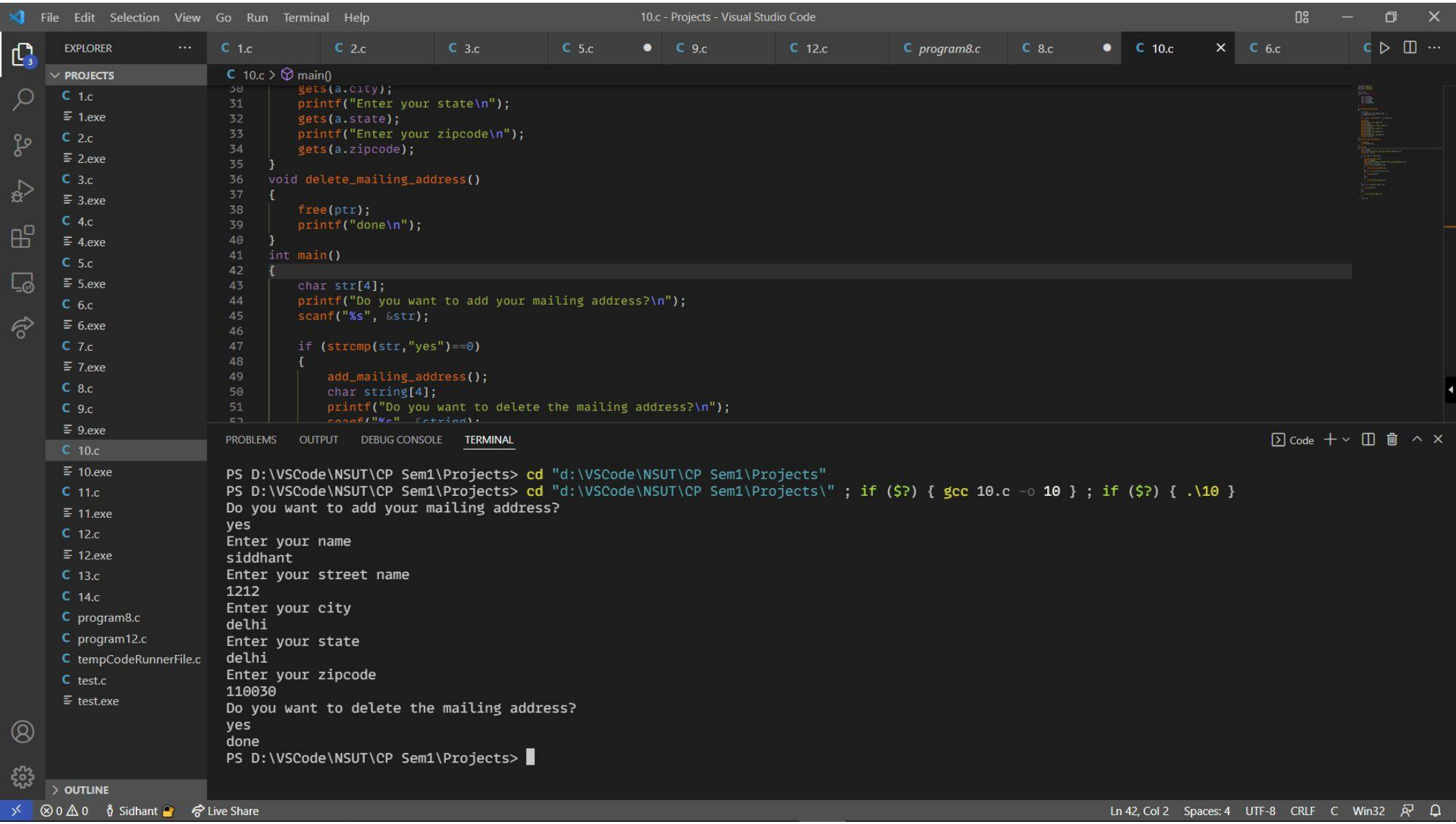
Program 10


File Edit Selection View Go Run Terminal Help
• 10.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c 8
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 8 12.c program8.c 8.c 10.c 6.c
10.c > info
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
char *ptr;
typedef struct information
{
char name[30];
char street[30];
char city[30];
char state[30];
char zipcode[30];
} info;
void add_mailing_address()
{
// int c;
// printf("size of dynamic mem: ");
// scanf("%d", &c);
ptr = (char *)malloc(144 * sizeof(char));
info a;
getchar();
printf("Enter your name\n");
gets(a.name);
printf("Enter your street name\n");
gets(a.street);
printf("Enter your city\n");
gets(a.city);
printf("Enter your state\n");
gets(a.state);
printf("Enter your zipcode\n");
gets(a.zipcode);
}
void delete_mailing_address()
{
free(ptr);
printf("done\n");
}
int main()
{
char str[4];
printf("Do you want to add your mailing address?\n");
scanf("%s", &str);
if (strcmp(str,"yes")==0)
8 0 Sidhant Live Share
Ln 14, Col 8 Spaces: 4 UTF-8 CRLF C Win32

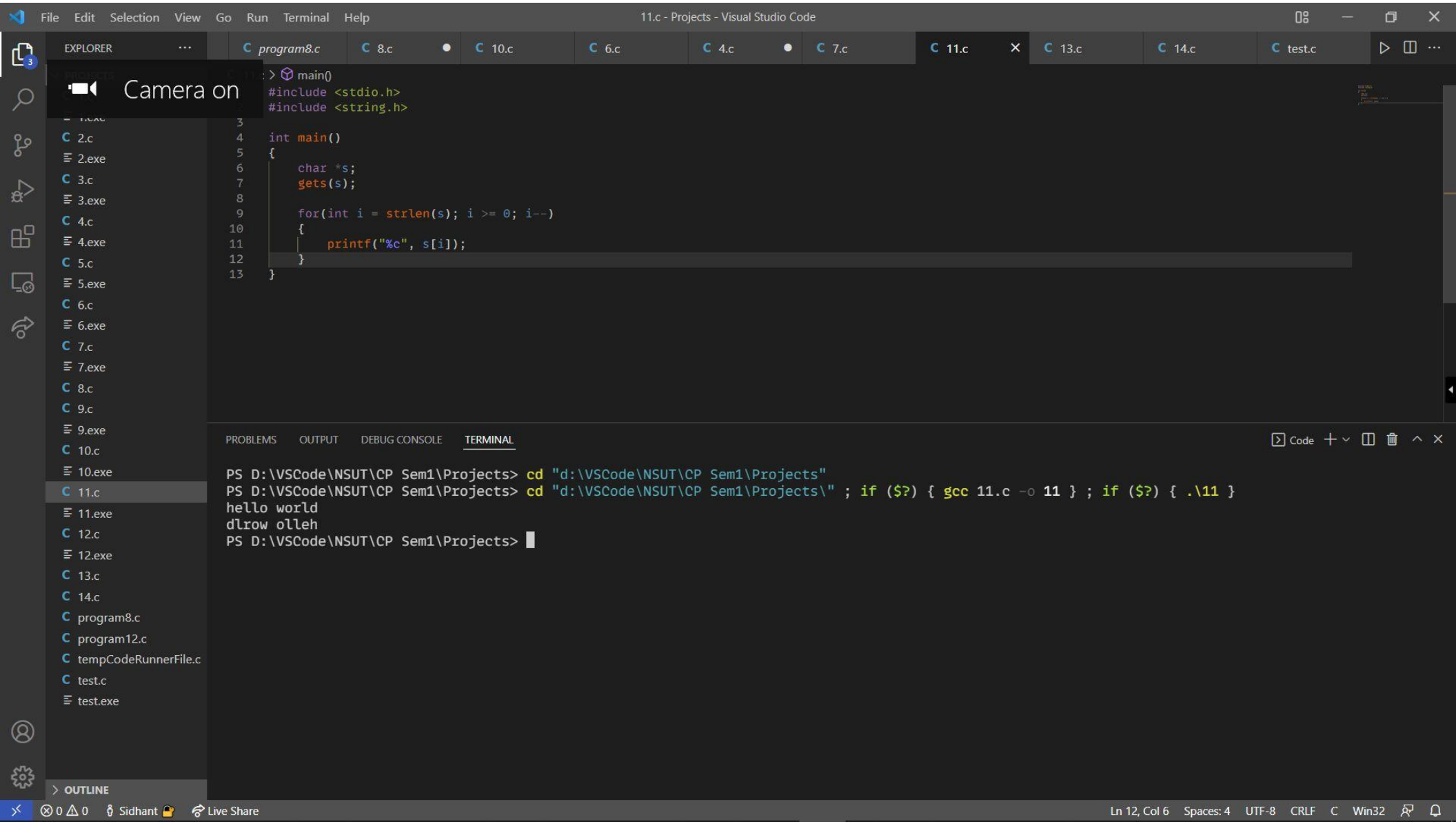
Program 10


File Edit Selection View Go Run Terminal Help
• 10.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c 8
9.exe
10.c
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 8 12.c program8.c 8.c 10.c 6.c
10.c > info
gets(a.city);
printf("Enter your state\n");
gets(a.state);
printf("Enter your zipcode\n");
gets(a.zipcode);
}
void delete_mailing_address()
{
free(ptr);
printf("done\n");
}
int main()
{
char str[4];
printf("Do you want to add your mailing address?\n");
scanf("%s", &str);
if (strcmp(str,"yes")==0)
{
add_mailing_address();
char string[4];
printf("Do you want to delete the mailing address?\n");
scanf("%s", &string);
if (strcmp(string,"yes")==0)
{
delete_mailing_address();
}
else if (strcmp(string,"no")==0)
{
printf("ok\n");
}
else
{
printf("wrong input\n");
}
}
else if (strcmp(str,"no") ==0)
{
printf("ok\n");
}
else
{
printf("wrong input\n");
}
return 0;
}
8 0 Sidhant Live Share
Ln 14, Col 8 Spaces: 4 UTF-8 CRLF C Win32

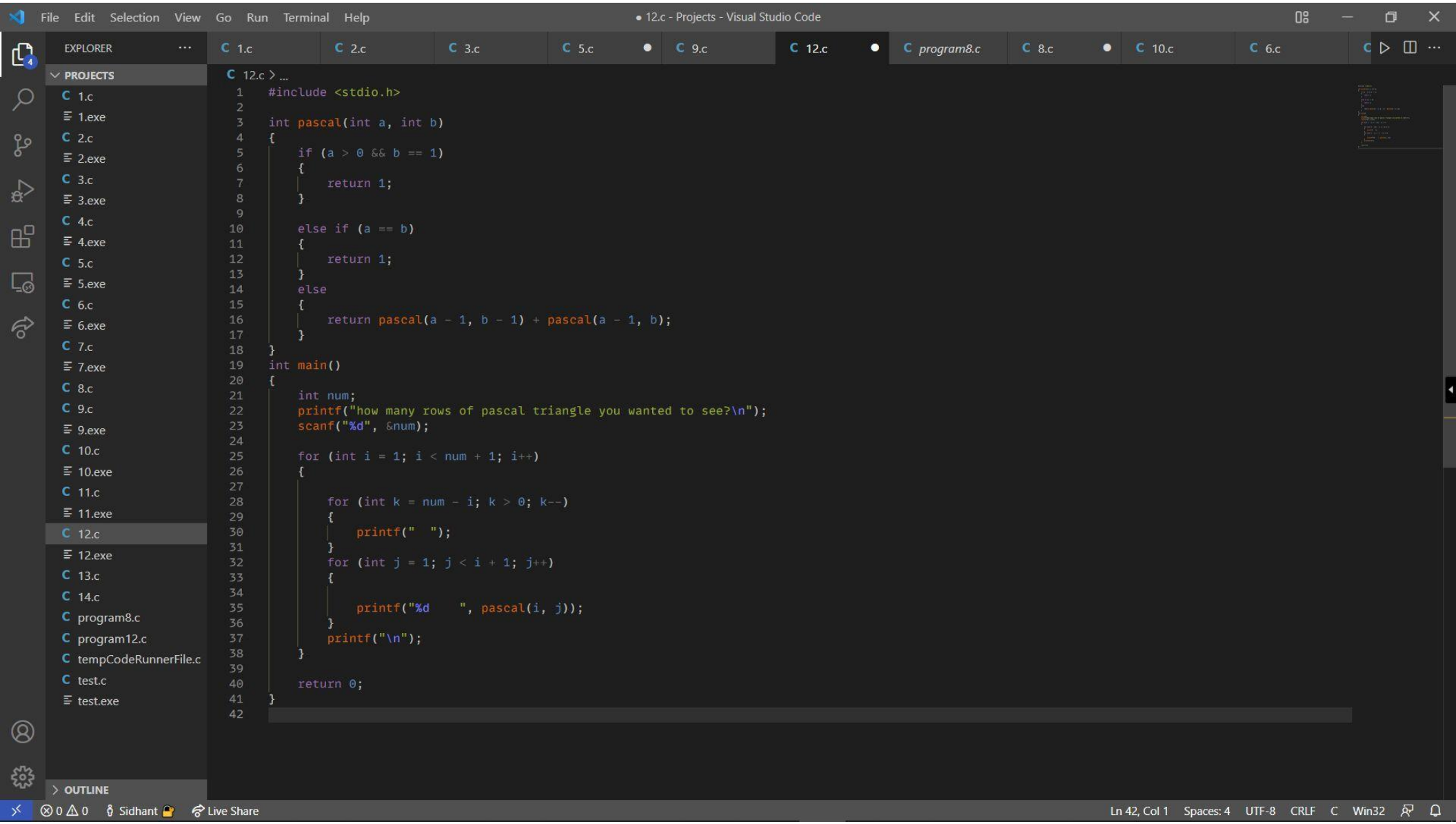
Program 10


File Edit Selection View Go Run Terminal Help
10.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
10.c > main()
gets(a.city);
printf("Enter your state\n");
gets(a.state);
printf("Enter your zipcode\n");
gets(a.zipcode);
}
void delete_mailing_address()
{
free(ptr);
printf("done\n");
}
int main()
{
char str[4];
printf("Do you want to add your mailing address?\n");
scanf("%s", &str);
if (strcmp(str,"yes")==0)
{
add_mailing_address();
char string[4];
printf("Do you want to delete the mailing address?\n");
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 10.c -o 10 } ; if ($?) { .\10 }
Do you want to add your mailing address?
yes
Enter your name
siddhant
Enter your street name
1212
Enter your city
delhi
Enter your state
delhi
Enter your zipcode
110030
Do you want to delete the mailing address?
yes
done
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 42, Col 2 Spaces: 4 UTF-8 CRLF C Win32

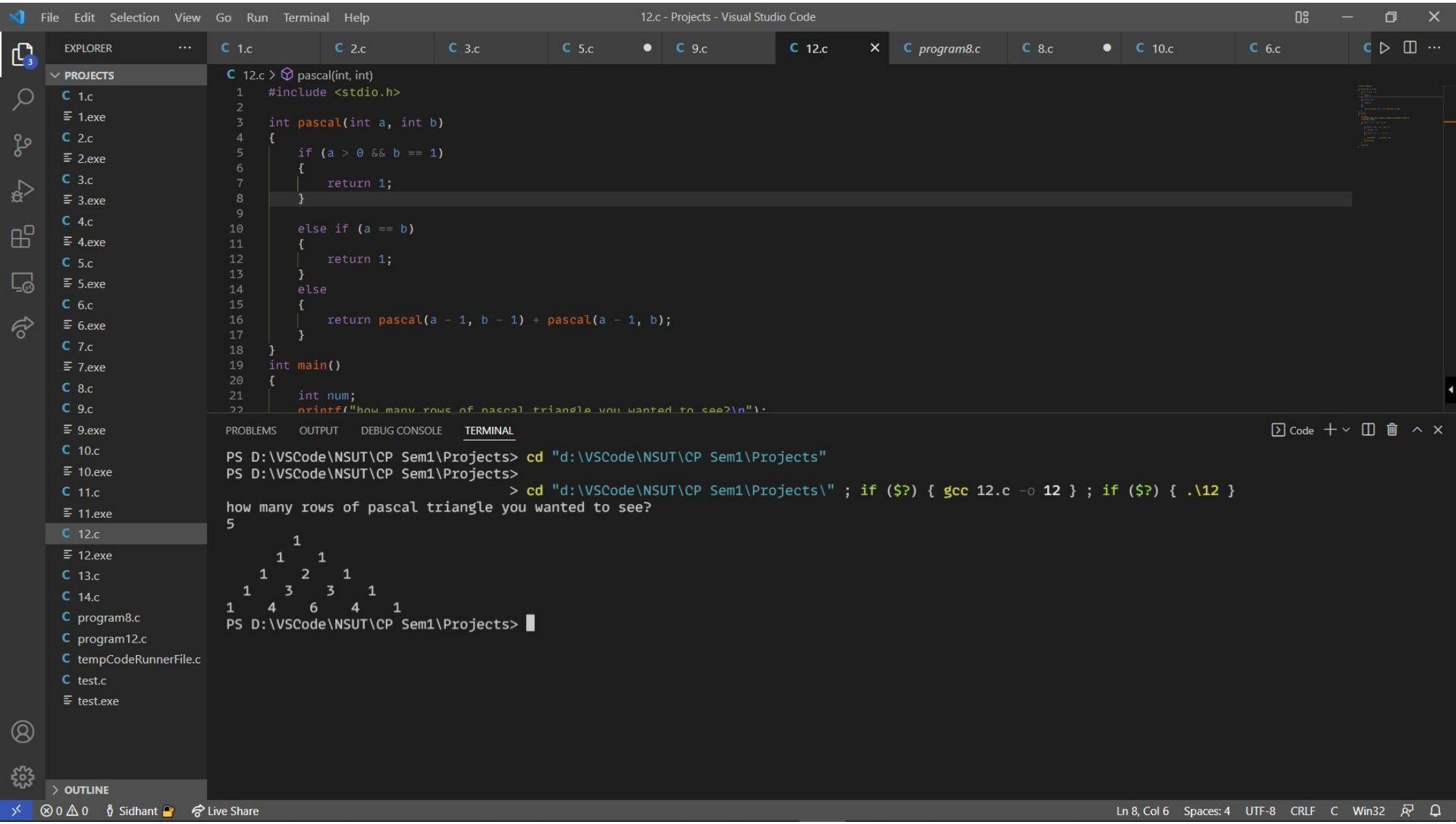
Program 11


File Edit Selection View Go Run Terminal Help
11.c - Projects - Visual Studio Code
EXPLORER
program8.c
8.c
10.c
6.c
4.c
7.c
11.c
13.c
14.c
test.c
Camera on
main()
#include <stdio.h>
#include <string.h>
int main()
{
char *s;
gets(s);
for(int i = strlen(s); i >= 0; i--)
{
printf("%c", s[i]);
}
}
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 11.c -o 11 } ; if ($?) { .\11 }
hello world
dlrow olleh
PS D:\VSCode\NSUT\CP Sem1\Projects>
OUTLINE
Sidhant
Live Share
Ln 12, Col 6 Spaces: 4 UTF-8 CRLF C Win32

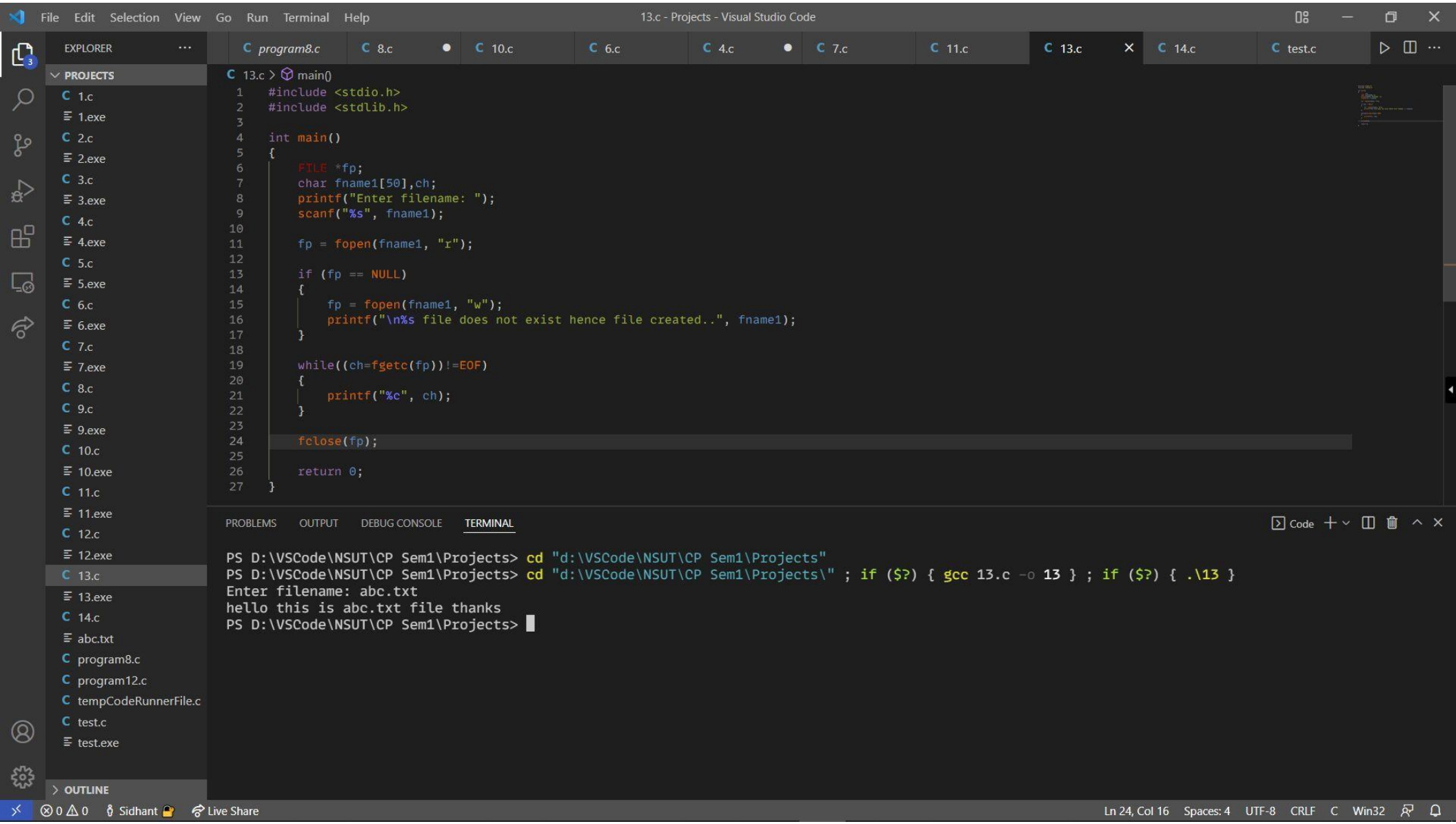
Program 12


File Edit Selection View Go Run Terminal Help
• 12.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
12.c > ...
#include <stdio.h>
int pascal(int a, int b)
{
if (a > 0 && b == 1)
{
return 1;
}
else if (a == b)
{
return 1;
}
else
{
return pascal(a - 1, b - 1) + pascal(a - 1, b);
}
}
int main()
{
int num;
printf("how many rows of pascal triangle you wanted to see?\n");
scanf("%d", &num);
for (int i = 1; i < num + 1; i++)
{
for (int k = num - i; k > 0; k--)
{
printf(" ");
}
for (int j = 1; j < i + 1; j++)
{
printf("%d ", pascal(i, j));
}
printf("\n");
}
return 0;
}
0 0 Sidhant Live Share
Ln 42, Col 1 Spaces: 4 UTF-8 CRLF C Win32

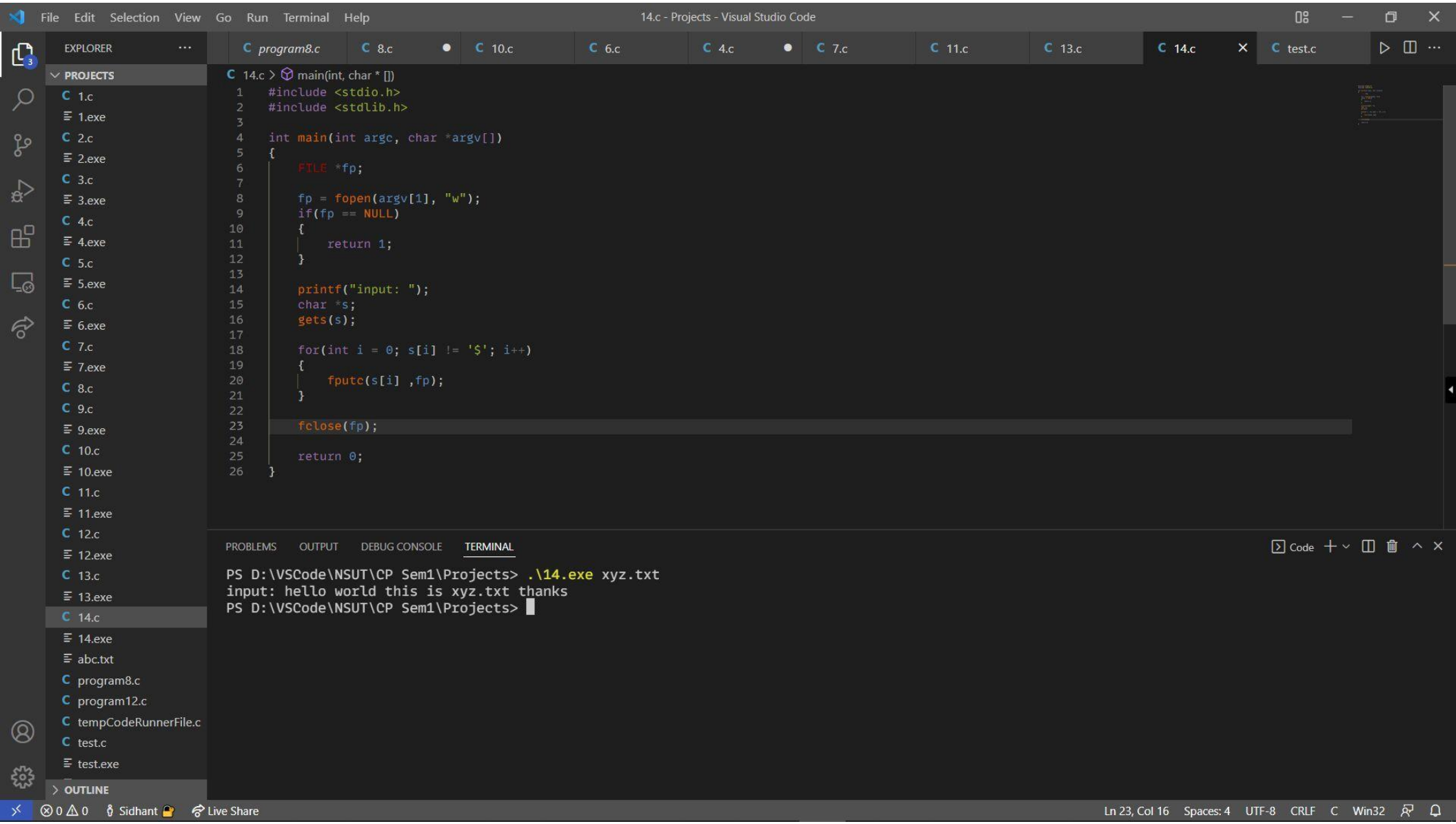
Program 12


File Edit Selection View Go Run Terminal Help
12.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
14.c
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
1.c 2.c 3.c 5.c 9.c 12.c program8.c 8.c 10.c 6.c
12.c > pascal(int, int)
#include <stdio.h>
int pascal(int a, int b)
{
if (a > 0 && b == 1)
{
return 1;
}
else if (a == b)
{
return 1;
}
else
{
return pascal(a - 1, b - 1) + pascal(a - 1, b);
}
}
int main()
{
int num;
printf("how many rows of pascal triangle you wanted to see?\n");
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects>
> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 12.c -o 12 } ; if ($?) { .\12 }
how many rows of pascal triangle you wanted to see?
5
1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 8, Col 6 Spaces: 4 UTF-8 CRLF C Win32

Program 13


File Edit Selection View Go Run Terminal Help
13.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
13.exe
14.c
abc.txt
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
program8.c
8.c
10.c
6.c
4.c
7.c
11.c
13.c
14.c
test.c
13.c > main()
#include <stdio.h>
#include <stdlib.h>
int main()
{
FILE *fp;
char fname1[50],ch;
printf("Enter filename: ");
scanf("%s", fname1);
fp = fopen(fname1, "r");
if (fp == NULL)
{
fp = fopen(fname1, "w");
printf("\n%s file does not exist hence file created..", fname1);
}
while((ch=fgetc(fp))!=EOF)
{
printf("%c", ch);
}
fclose(fp);
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects"
PS D:\VSCode\NSUT\CP Sem1\Projects> cd "d:\VSCode\NSUT\CP Sem1\Projects\" ; if ($?) { gcc 13.c -o 13 } ; if ($?) { .\13 }
Enter filename: abc.txt
hello this is abc.txt file thanks
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0 Sidhant Live Share
Ln 24, Col 16 Spaces: 4 UTF-8 CRLF C Win32

Program 14


File Edit Selection View Go Run Terminal Help
14.c - Projects - Visual Studio Code
EXPLORER
PROJECTS
1.c
1.exe
2.c
2.exe
3.c
3.exe
4.c
4.exe
5.c
5.exe
6.c
6.exe
7.c
7.exe
8.c
9.c
9.exe
10.c
10.exe
11.c
11.exe
12.c
12.exe
13.c
13.exe
14.c
14.exe
abc.txt
program8.c
program12.c
tempCodeRunnerFile.c
test.c
test.exe
OUTLINE
program8.c
8.c
10.c
6.c
4.c
7.c
11.c
13.c
14.c
test.c
14.c > main(int, char * [])
#include <stdio.h>
#include <stdlib.h>
int main(int argc, char *argv[])
{
FILE *fp;
fp = fopen(argv[1], "w");
if(fp == NULL)
{
return 1;
}
printf("input: ");
char *s;
gets(s);
for(int i = 0; s[i] != '$'; i++)
{
fputc(s[i] ,fp);
}
fclose(fp);
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
Code
PS D:\VSCode\NSUT\CP Sem1\Projects> .\14.exe xyz.txt
input: hello world this is xyz.txt thanks
PS D:\VSCode\NSUT\CP Sem1\Projects>
0 0
Sidhant
Live Share
Ln 23, Col 16
Spaces: 4
UTF-8
CRLF
C
Win32