

The screenshot shows a code editor interface with the following details:

- File Tabs:** The tabs at the top are "ANAS.c" (active), "A.c", and "2 x".
- Code Content:** The code is a C program named "A.c" that prints a diamond pattern. It uses nested loops to iterate through rows and columns, and an if-else condition to determine whether to print an asterisk (\*) or a space.

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<7;j++){
6             if(j==0 && i>0 || j==6 && i>0 || i==0 && j>0 && j<6 || i==3)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
```

- Bottom Bar:** The bottom bar includes tabs for PROBLEMS (2), OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The OUTPUT tab is active, showing the command run and the resulting diamond pattern.
- Output Window:** The output window shows the command run and the resulting diamond pattern.

B.c

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<5;j++){
6             if(j==0 || (i==0||i==3||i==6) && j<4 || (j==4 && i!=0 && i!=3 && i!=6))
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

PROBLEMS 2    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    Filter    Code

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc B.c -o B &&
"c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"B
****
*   *
*   *
****
```

[Done] exited with code=0 in 1.642 seconds

The screenshot shows a code editor window in VS Code with the following details:

- Title Bar:** BTech 1A , Anas-Ahmad, (RU-25-10183)
- Code Editor:** A C file named "C.c" containing the following code:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(i==0 && j>0 || i==6 && j>0 || j==0 && i>0 && i<6)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15 }
```
- Bottom Navigation Bar:** PROBLEMS (2), OUTPUT (selected), DEBUG CONSOLE, TERMINAL, PORTS, Filter, Code
- Terminal Output:**

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc C.c -o C &&
"c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"C
*****
*
*
*
*
*****
[Done] exited with code=0 in 1.824 seconds
```

D.c

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(j==0 || (i==0 || i==6) && j<5 || j==5 && i>0 && i<6)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc D.c -o D && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"D
*****
*   *
*   *
*   *
*   *
*   *
*****
```

```
[Done] exited with code=0 in 1.904 seconds
```

The screenshot shows a code editor interface with a dark theme. At the top, there's a header bar with a search field containing "BTech-1A , Anas-Ahmad, (RU-25-10183)". Below the header is a tab bar with tabs for "E.c" (selected), "X", and "E.c > ...". The main area displays the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(j==0 || i==0 || i==3 || i==6)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

Below the code editor is a navigation bar with tabs: PROBLEMS (2), OUTPUT (selected), DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The terminal window shows the command line and the output of the program:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc E.c -o E && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"E
*****
*
*
*****
*
*
*****
```

```
[Done] exited with code=0 in 2.462 seconds
```

The screenshot shows a code editor interface with a dark theme. At the top, there is a search bar with the text "BTech-1A , Anas Ahmad, (RU-25-10183)". Below the search bar is a toolbar with various icons. The main area displays a C program named "F.c". The code is as follows:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(j==0 || i==0 || i==3)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11    }
12    printf("\n");
13 }
14
15 return 0;
```

Below the code editor is a tab bar with tabs for "PROBLEMS" (2), "OUTPUT", "DEBUG CONSOLE", "TERMINAL", "PORTS", "Filter", and "Code". The "Code" tab is currently selected. The terminal output section shows the command run and the resulting asterisk pattern:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc F.c -o F &&
"c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"F
*****
*
*
*****
*
*
*
[Done] exited with code=0 in 1.965 seconds
```

BTech-1A , Anas-Ahmad (RU-25-10183)

C G.c X

C G.c > ...

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<7;j++){
6             if(i==0 && j>1 && j<6 ||
7                 i==6 && j>1 && j<6 ||
8                 j==1 && i>0 && i<6 ||
9                 j==6 && i>=3 && i<6 ||
10                i==3 && j>=3)
11                 printf("*");
12             else
13                 printf(" ");
14         }
15     }
16 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc G.c -o G && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"G

\*\*\*\*  
\*  
\*  
\* \*\*\*\*  
\* \*  
\* \*  
\*\*\*\*

[Done] exited with code=0 in 1.293 seconds

BTech-1A , Anas-Ahmad, (RU-25-10183)

H.c

```
1 #include <stdio.h>
2
3 int main() {
4     int i, j;
5     int height = 7;
6     int width = 5;
7
8     for (i = 0; i < height; i++) {
9         for (j = 0; j < width; j++) {
10            if (j == 0 || j == width - 1 || i == height / 2) {
11                printf("*");
12            } else {
13                printf(" ");
14            }
15        }
16        printf("\n");
17    }
18
19    return 0;
20 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && g++ H.c -o H && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"H

\* \*  
\* \*  
\* \*  
\*\*\*\*\*  
\* \*  
\* \*  
\* \*

0183) Debug Run Save All Ln 1, Col 1 Spaces: 4 UTF-8 CRLF { } C++ windows-gcc-x86

I.c

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<5;j++){
6             if(i==0 || i==6 || j==2)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c_assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\" && gcc I.c -o I && "c:\Users\HP\Documents\VS CODE\c_assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"I
*****
*
*
*
*
*
*****
```

```
[Done] exited with code=0 in 2.084 seconds
```

The screenshot shows a code editor with a C file named `J.c`. The code prints a 7x6 grid of asterisks (\*). The output is as follows:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)" && gcc J.c -o J && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"J
*****
 *
 *
 *
 *
*
* *
```

The code is as follows:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(i==0 || (j==3 && i<6) || (i==6 && j<3) || (j==0 && i==5))
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

K.c

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(j==0 || j==5-i || (i>3 && j==i-1))
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\" && gcc K.c -o K && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"K
*   *
*   *
*   *
** *
*   *
*   *

[Done] exited with code=0 in 2.276 seconds
```

The screenshot shows a code editor interface with a dark theme. At the top, there is a header bar with icons for file operations, a search bar containing the text "BTech-1A, Anas-Ahmad, (RU-25-10183)", and a set of window control buttons. Below the header is a toolbar with icons for file operations, a search bar, and other tools.

The main area displays a C program named "L.c". The code prints a diamond shape using nested loops. The output is shown in the terminal tab below:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc L.c -o L && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"L
*
*
*
*
*
*****
[Done] exited with code=0 in 2.377 seconds
```

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. At the top, there's a toolbar with icons for Run, Save, Find, and others. The title bar says "BTech-1A , Anas-Ahmad, (RU-25-10183)". Below the title bar is the editor area with a file named "M.c". The code is as follows:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<7;j++){
6             if(j==0 || j==6 || (i==j && j>0 && j<4) || (i+j==6 && j>2 && j<6))
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

Below the editor is a tab bar with PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The TERMINAL tab is active, showing the command line and the output of the program:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc M.c -o M && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"M
* *
** **
* * * *
*   *
*   *
*   *
```

The terminal also shows the message "[Done] exited with code=0 in 1.109 seconds".

The screenshot shows a code editor window with the following details:

- Title Bar:** BTech-1A , Anas-Ahmad, (RU-25-10183)
- Code Editor Area:** A tab labeled "C N.c" is active, showing the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<7;j++){
6             if(j==0 || j==6 || i==j)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15 }
```
- Bottom Navigation:** Tabs for PROBLEMS (2), OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The Code tab is currently selected.
- Output Console:** Displays the command run and the resulting diamond pattern.

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc N.c -o N &&
"c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"N
*
**
* *
* * *
*   *
*   **
*   *
```
- Status:** [Done] exited with code=0 in 2.049 seconds

The screenshot shows a code editor interface with a dark theme. At the top, there is a header bar with a search field containing the text "BTech-1A , Anas-Ahmad, (RU-25-10183)". To the right of the search field are several icons for file operations like open, save, and close. Below the header is a tab bar with "O.c" selected. The main area contains the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if((i==0 && j>0 && j<5) ||
7                 (i==6 && j>0 && j<5) ||
8                 (j==0 && i>0 && i<6) ||
9                 (j==5 && i>0 && i<6))
10                printf("*");
11            else
12                printf(" ");
13        }
14        printf("\n");
15    }
16    return 0;
17 }
```

Below the code editor is a navigation bar with tabs: PROBLEMS (2), OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The "Code" tab is currently active. The output window below shows the command run and the resulting diamond pattern:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc O.c -o O && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"O
****  
*   *  
*   *  
*   *  
*   *  
*   *  
****
```

[Done] exited with code=0 in 1.879 seconds

The screenshot shows a code editor interface with a dark theme. At the top, there's a header bar with icons for file operations and a search bar containing the text "BTech-1A , Anas-Ahmad, (RU-25-10183)". Below the header is a tab bar with "P.c" selected. The main area displays the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(j==0 || (i==0 && j<5) || (i==3 && j<5) || (j==5 && i>0 && i<3))
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

Below the code editor is a navigation bar with tabs: PROBLEMS (2), OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The Code tab is currently active. The terminal output window shows the command run and the resulting asterisk pattern:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc P.c -o P &&
"c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"P
*****
*
*
*****
*
*
*
```

At the bottom, the message "[Done] exited with code=0 in 2.092 seconds" is displayed.

BTech-1A , Anas-Ahmad, (RU-25-10183)

C Q.c

C Q.c > ...

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<8;i++){
5         for(int j=0;j<7;j++){
6             if((i==0 && j>0 && j<6) ||
7                 (i==6 && j>0 && j<6) ||
8                 (j==0 && i>0 && i<6) ||
9                 (j==6 && i>0 && i<6) ||
10                (i>=4 && j==i-1))
11                 printf("*");
12             else
13                 printf(" ");
14         }
15         printf("\n");
16     }
17 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\*" && gcc Q.c -o Q && .\Q

\*\*\*\*\*  
\* \*  
\* \*  
\* \*  
\* \* \*  
\* \* \*  
\*\*\*\*\*  
| \*

[Done] exited with code=0 in 2.568 seconds

The screenshot shows a code editor interface with a dark theme. At the top, there is a search bar containing the text "BTech-1A , Anas-Ahmad, (RU-25-10183)". Below the search bar are several icons for file operations like save, close, and refresh.

The main area displays a C program named `R.c`. The code is as follows:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if(j==0 || (i==0 && j<5) || (i==3 && j<5) ||
7                 (j==5 && i>0 && i<3) || (i>3 && j==i-1))
8                 printf("*");
9             else
10                 printf(" ");
11         }
12         printf("\n");
13     }
14     return 0;
15 }
```

Below the code editor, there is a navigation bar with tabs: PROBLEMS (2), OUTPUT, DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The Code tab is currently selected.

The OUTPUT tab shows the terminal logs for running the program:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc R.c -o R && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"R
*****
*   *
*   *
*****
*   *
*   *
*   *
```

The [Done] message indicates the program exited successfully after 2.151 seconds.

BTech-1A , Anas-Ahmad, (RU-25-10183)

C S.c X

C S.c > ...

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<6;j++){
6             if((i==0 && j>0) ||
7                 (i==3) ||
8                 (i==6 && j<5) ||
9                 (j==0 && i>0 && i<3) ||
10                (j==5 && i>3 && i<6))
11                 printf("*");
12             else
13                 printf(" ");
14         }
15         printf("\n");
16     }
17 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc S.c -o S && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"S

\*\*\*\*\*  
\*  
\*  
\*\*\*\*\*  
\*  
\*  
\*\*\*\*\*

[Done] exited with code=0 in 2.056 seconds

BTech-1A , Anas-Ahmad, (RU-25-10183)

C T.c > ...

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i=0;i<7;i++){
5         for(int j=0;j<7;j++){
6             if(i==0 || j==3)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc T.c -o T && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"T
*****
```

```
*
```

```
*
```

```
*
```

```
*
```

```
*
```

```
*
```

```
*
```

```
[Done] exited with code=0 in 2.045 seconds
```





The screenshot shows a code editor interface with a dark theme. At the top, there is a search bar containing the text "BTech-1A , Anas-Ahmad, (RU-25-10183)". Below the search bar are several icons for file operations like save, close, and refresh. The main area displays a C program named "W.c". The code prints a diamond shape using nested loops and conditional statements. The output tab at the bottom shows the execution command and the resulting diamond pattern.

```
C W.c > ...
C W.c > ...
1 #include <stdio.h>
2
3 int main() {
4     int i, j;
5     int height = 7;
6
7     for (i = 0; i < height; i++) {
8         for (j = 0; j <= height; j++) {
9             if (j == 0 || j == height ||
10                 (i >= height/2 && (j == i || j == height - i))) {
11                 printf("*");
12             } else {
13                 printf(" ");
14             }
15         }
16         printf("\n");
17     }
}
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc W.c -o W && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"W
*      *
*      *
*      *
* ** *
* ** *
* * *
**   **
[Done] exited with code=0 in 2.178 seconds
```

The screenshot shows a code editor interface with a dark theme. At the top, there is a search bar containing the text "BTech-1A , Anas-Ahmad, (RU-25-10183)". Below the search bar is a tab bar with two tabs: "X.c" and "X.c > ...". The main area displays a C program:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i = 0; i < 7; i++){
5         for(int j = 0; j < 7; j++){
6             if(j == i || j == 6 - i)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

Below the code editor is a navigation bar with tabs: PROBLEMS (2), OUTPUT (selected), DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The "OUTPUT" tab shows the terminal output of the program's execution:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c_assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc X.c -o X &&
"c:\Users\HP\Documents\VS CODE\c_assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"X
*   *
*   *
*   *
*
*   *
*   *
*   *
```

The output shows the diamond pattern being printed to the console.

The screenshot shows a code editor with a dark theme. At the top, there's a header bar with icons for file operations and a search field containing the text "BTech-1A, Anas-Ahmad, (RU-25-10183)". Below the header is a tab bar with a "Y.c" tab and a close button. The main area displays the following C code:

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i = 0; i < 7; i++){
5         for(int j = 0; j < 7; j++){
6             if((j == i && i < 3) || (j == 6 - i && i < 3) || (j == 3 && i >= 3))
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

Below the code editor is a navigation bar with tabs: PROBLEMS (2), OUTPUT (selected), DEBUG CONSOLE, TERMINAL, PORTS, Filter, and Code. The terminal output window shows the command run and the resulting pattern:

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc Y.c -o Y && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"Y
* *
* *
* *
*
*
*
*
```

The terminal also indicates the process completed successfully:

```
[Done] exited with code=0 in 1.397 seconds
```

Z.c

```
1 #include <stdio.h>
2
3 int main() {
4     for(int i = 0; i < 7; i++){
5         for(int j = 0; j < 7; j++){
6             if(i == 0 || i == 6 || j == 6 - i)
7                 printf("*");
8             else
9                 printf(" ");
10        }
11        printf("\n");
12    }
13    return 0;
14 }
15
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

```
[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc Z.c -o Z && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"Z
*****
 *
 *
 *
 *
*****
[Done] exited with code=0 in 1.966 seconds
```

Help ← → ⌂ BTech-1A , Anas-Ahmad, (RU-25-10183) ⌂

C ANAS.c X

C ANAS.c > main()

```
1 #include <stdio.h>
2 int main() {
3     int i, j;
4     for(i = 0; i < 7; i++) {
5         for(j = 0; j < 40; j++) {
6             if( (j == 1 && i > 0) || (j == 7 && i > 0) || 
7                 (i == 0 && j > 1 && j < 7) || 
8                 (i == 3 && j > 1 && j < 7) )
9                 printf("*");
10            else if(j == 8)
11                printf(" ");
12            else if( j == 10 || j == 16 || j == 10 + i )
13                printf("*");
14            else if(j == 17)
15                printf(" ");
16            else if( (j == 19 && i > 0) || (j == 25 && i > 0) || 
17                     (i == 0 && j > 19 && j < 25) || 
18                     (i == 3 && j > 19 && j < 25) )
19                printf("*");
20            else if(j == 26)
21                printf(" ");
22            else if( (i == 0 && j > 28 && j < 34) || 
23                     (i == 3 && j > 28 && j < 34) || 
24                     (i == 6 && j > 28 && j < 34) || 
25                     (j == 29 && i > 0 && i < 3) || 
26                     (j == 33 && i > 3 && i < 6) )
27                printf("*");
28            else
29                printf(" ");
30        }
31        printf("\n");
32    }
33    return 0;
34 }
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS Filter Code

[Running] cd "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\" && gcc ANAS.c -o ANAS && "c:\Users\HP\Documents\VS CODE\c assignment\BTech-1A , Anas-Ahmad, (RU-25-10183)\\"ANAS

```
***** * * ***** *
*   * ** * * *   *
*   * * * * *   *
***** * * * ***** *
*   * * * * *   *
*   * * * * *   *
*   * * * * *   *
```