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ROLL NO: CT-25062

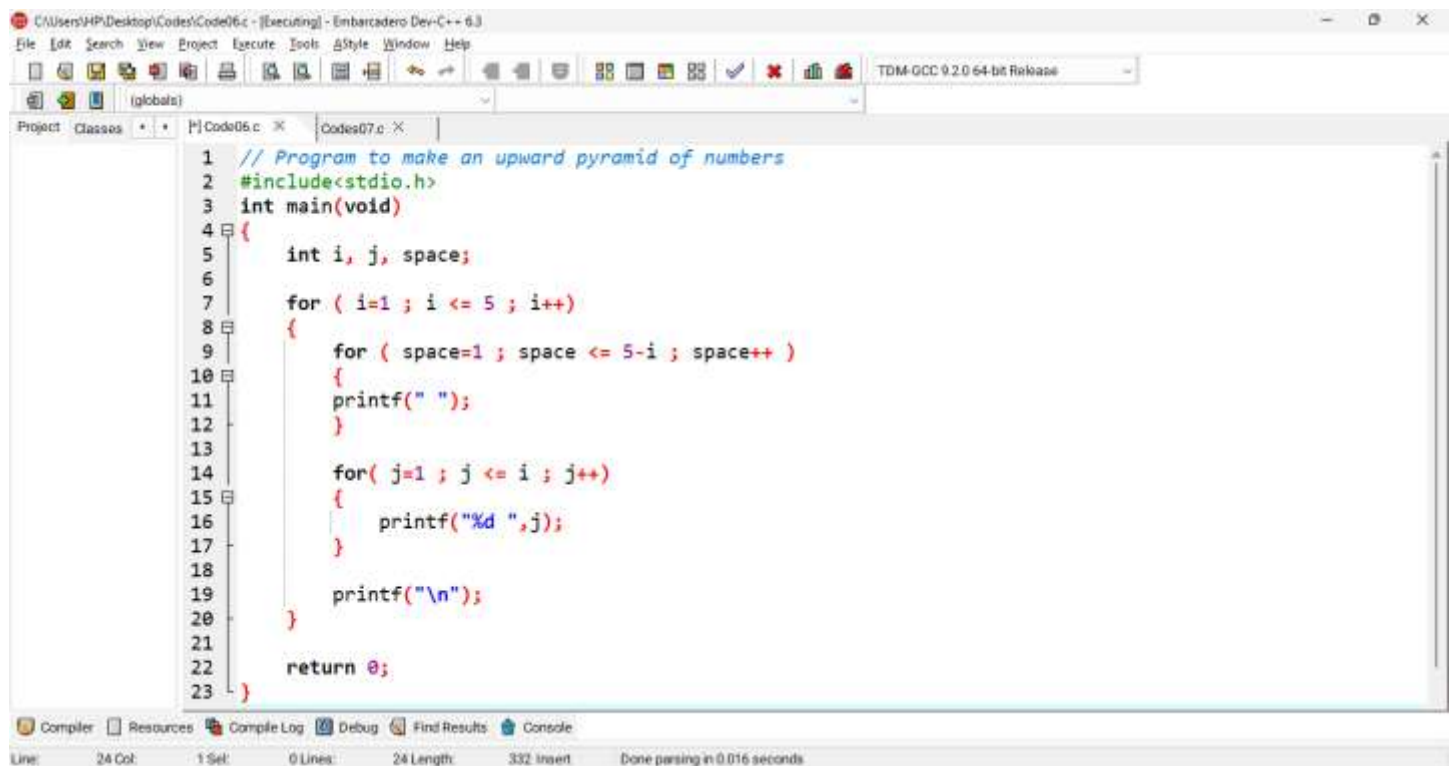
CLASS: BCIT

SECTION: B

### QUESTION 01: Number Pyramid

Write a C program to make an upward pyramid of numbers.

### SOURCE CODE:



```
1 // Program to make an upward pyramid of numbers
2 #include<stdio.h>
3 int main(void)
4 {
5     int i, j, space;
6
7     for ( i=1 ; i <= 5 ; i++)
8     {
9         for ( space=1 ; space <= 5-i ; space++ )
10        {
11            printf(" ");
12        }
13
14        for( j=1 ; j <= i ; j++)
15        {
16            printf("%d ",j);
17        }
18
19        printf("\n");
20    }
21
22    return 0;
23 }
```

The screenshot shows a code editor window with the following C program. The program uses nested loops to print an upward pyramid of numbers. The outer loop iterates from i=1 to i=5. The inner loop for spaces iterates from space=1 to space=5-i, printing a space character. The second inner loop iterates from j=1 to j=i, printing the number j. A newline character is printed after each row. The status bar at the bottom indicates the program is done parsing in 0.016 seconds.

## OUTPUT:

```
C:\Users\HP\Desktop\Codes\ >
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5

-----
Process exited after 0.1552 seconds with return value 0
Press any key to continue . . .
```

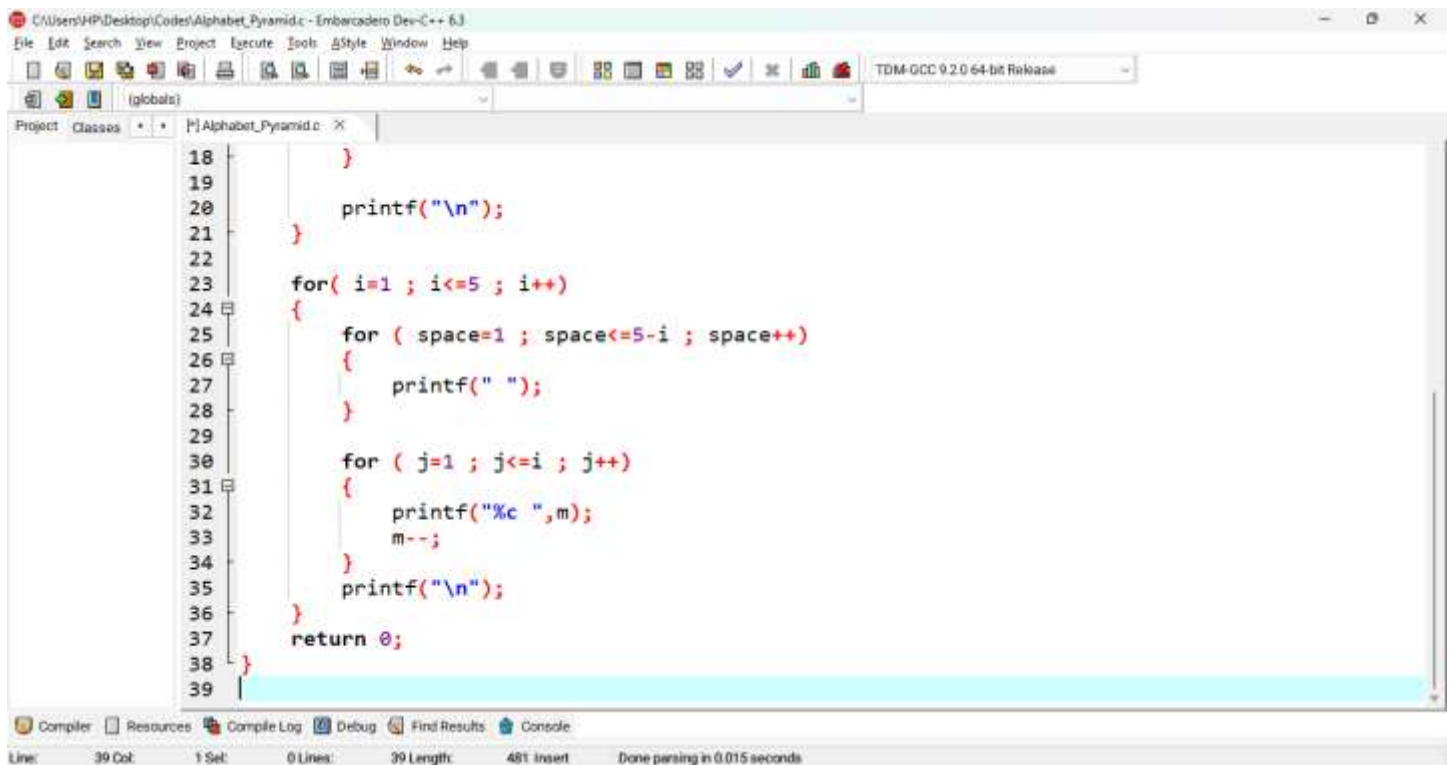
## QUESTION 02: Inverted Pyramid Combination

Print the following letter pyramid using loops (Hint single outer loop with two inner loops).s

## SOURCE CODE:

```
C:\Users\HP\Desktop\Codes\Alphabet_Pyramid.c - Embarcadero Dev-C++ 6.3
File Edit Search View Project Execute Tools Style Window Help
(globals)
Project Classes * * * Alphabet_Pyramid.c
1 #include<stdio.h>
2 int main (void)
3 {
4     int i, space, j;
5     char n=80, m=79;
6
7     for( i=4 ; i>=1 ; i--)
8     {
9         for( space=1 ; space <= 4-i ; space++)
10        {
11            printf(" ");
12        }
13
14        for( j=1 ; j<=i ; j++)
15        {
16            printf(" %c",n);
17            n++;
18        }
19
20        printf("\n");
21    }
22 }
```

Compiler Resources Compile Log Debug Find Results Console  
Line: 39 Col: 1 Sel: 0 Lines: 39 Length: 481 Insert Done parsing in 0.015 seconds

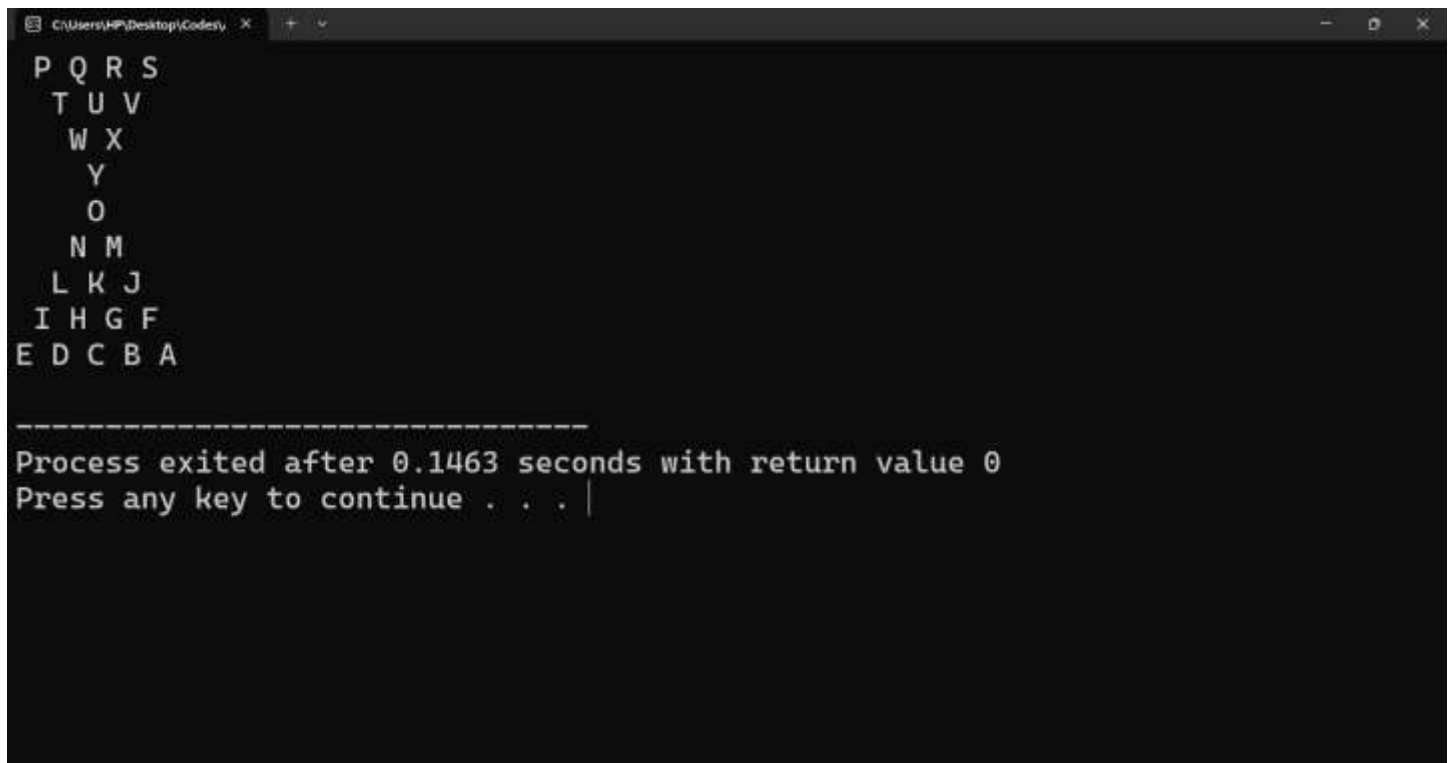


The screenshot shows a code editor window titled "Alphabet\_Pyramid.c" with the following C++ code:

```
18     }
19
20     printf("\n");
21 }
22
23 for( i=1 ; i<=5 ; i++)
24 {
25     for ( space=1 ; space<=5-i ; space++)
26     {
27         printf(" ");
28     }
29
30     for ( j=1 ; j<=i ; j++)
31     {
32         printf("%c ",m);
33         m--;
34     }
35     printf("\n");
36 }
37 return 0;
38 }
39
```

The bottom status bar indicates: "Line: 39 Col: 1 Sel: 0 Lines: 39 Length: 481 Insert Done parsing in 0.015 seconds".

OUTPUT:



The screenshot shows a terminal window with the following output:

```
P Q R S
 T U V
  W X
   Y
    O
   N M
  L K J
 I H G F
E D C B A

-----
Process exited after 0.1463 seconds with return value 0
Press any key to continue . . .
```