

U20CS100 ADITYA RAJ DS Assignment-2

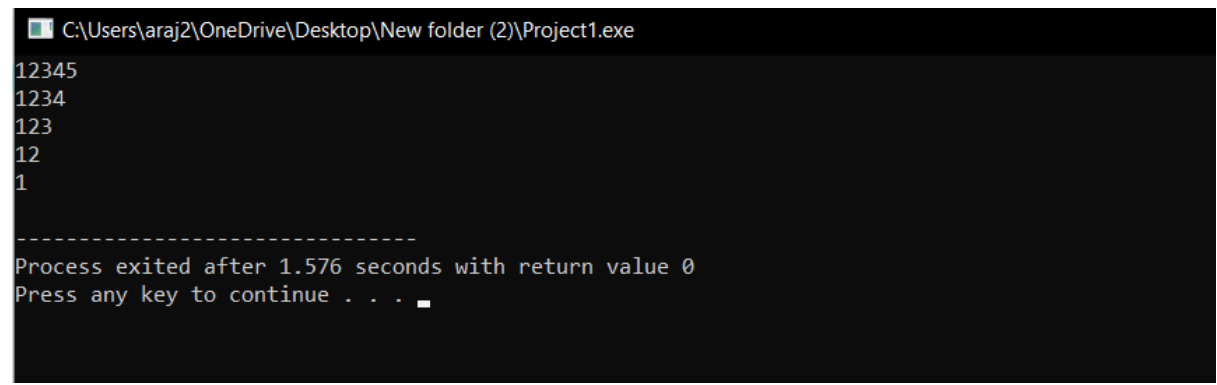
(a) 1 2 3 4 5
 1 2 3 4
 1 2 3
 1 2
 1

Main file (Code):

```
#include <stdio.h>

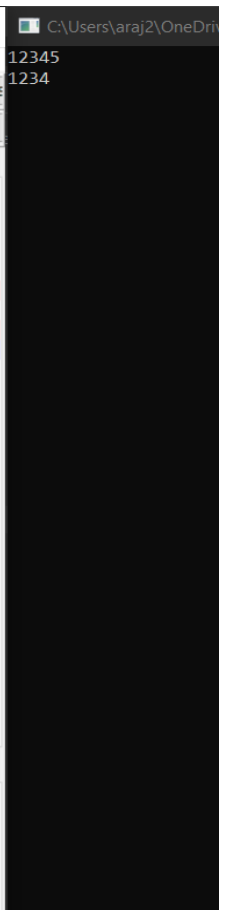
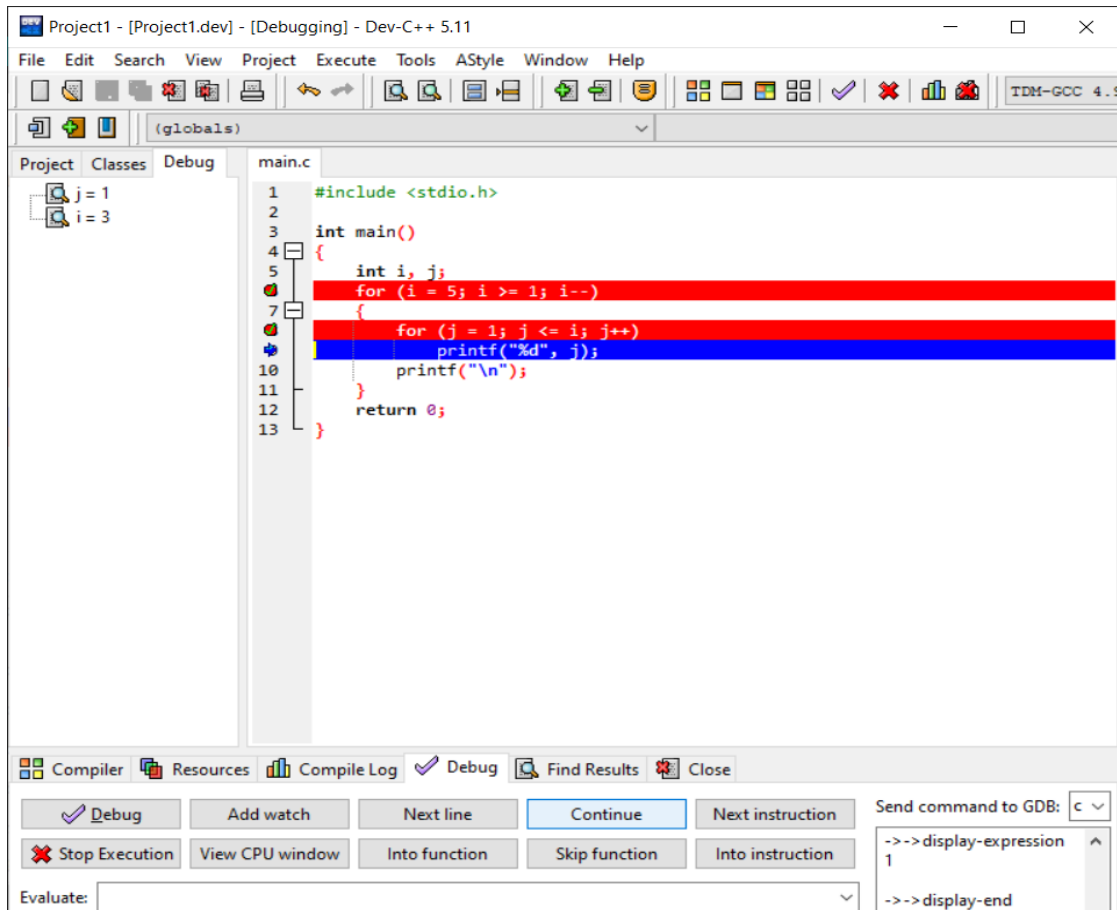
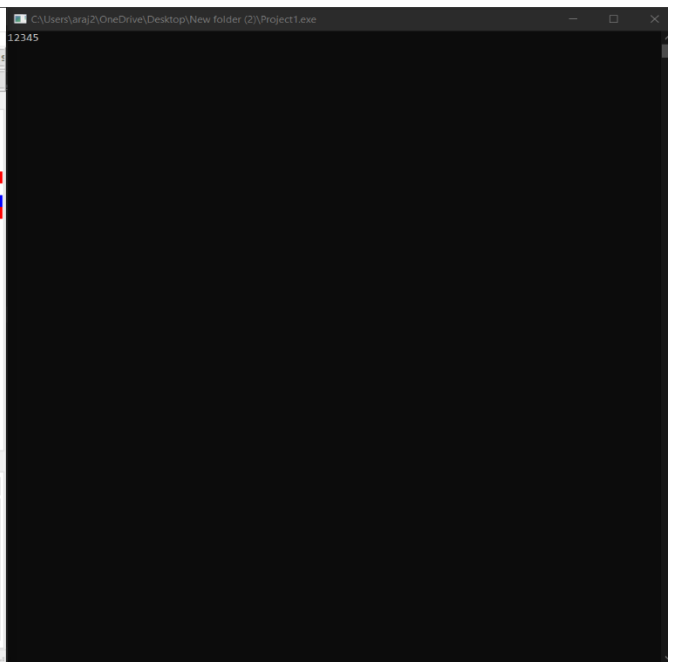
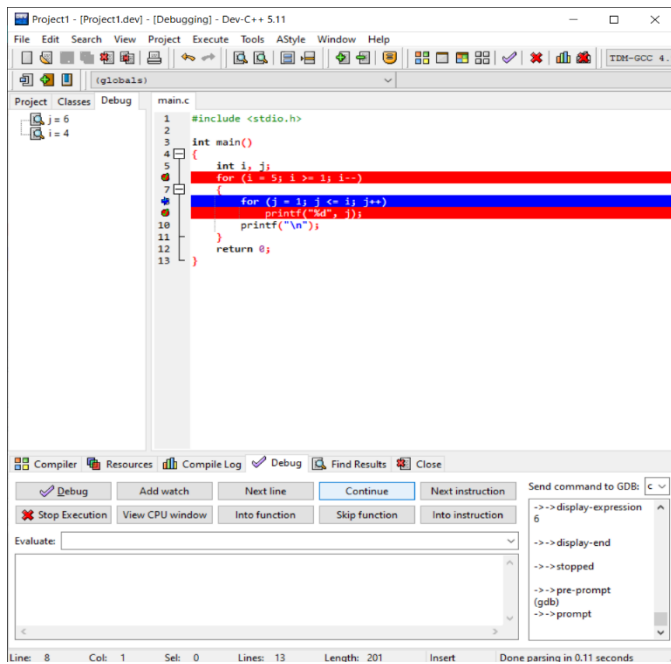
int main()
{
    int i, j;
    for (i = 5; i >= 1; i--)
    {
        for (j = 1; j <= i; j++)
            printf("%d", j);
        printf("\n");
    }
    return 0;
}
```

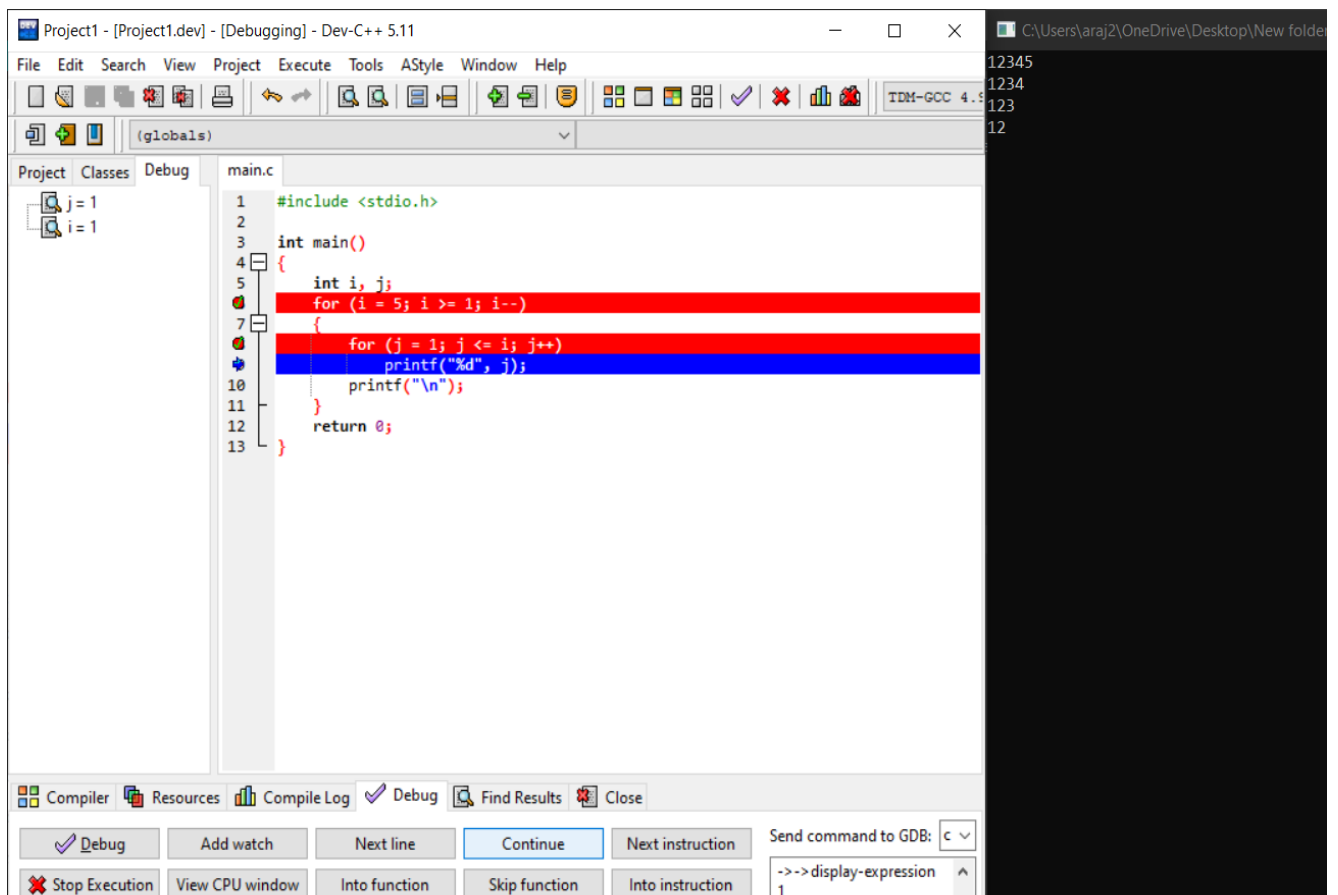
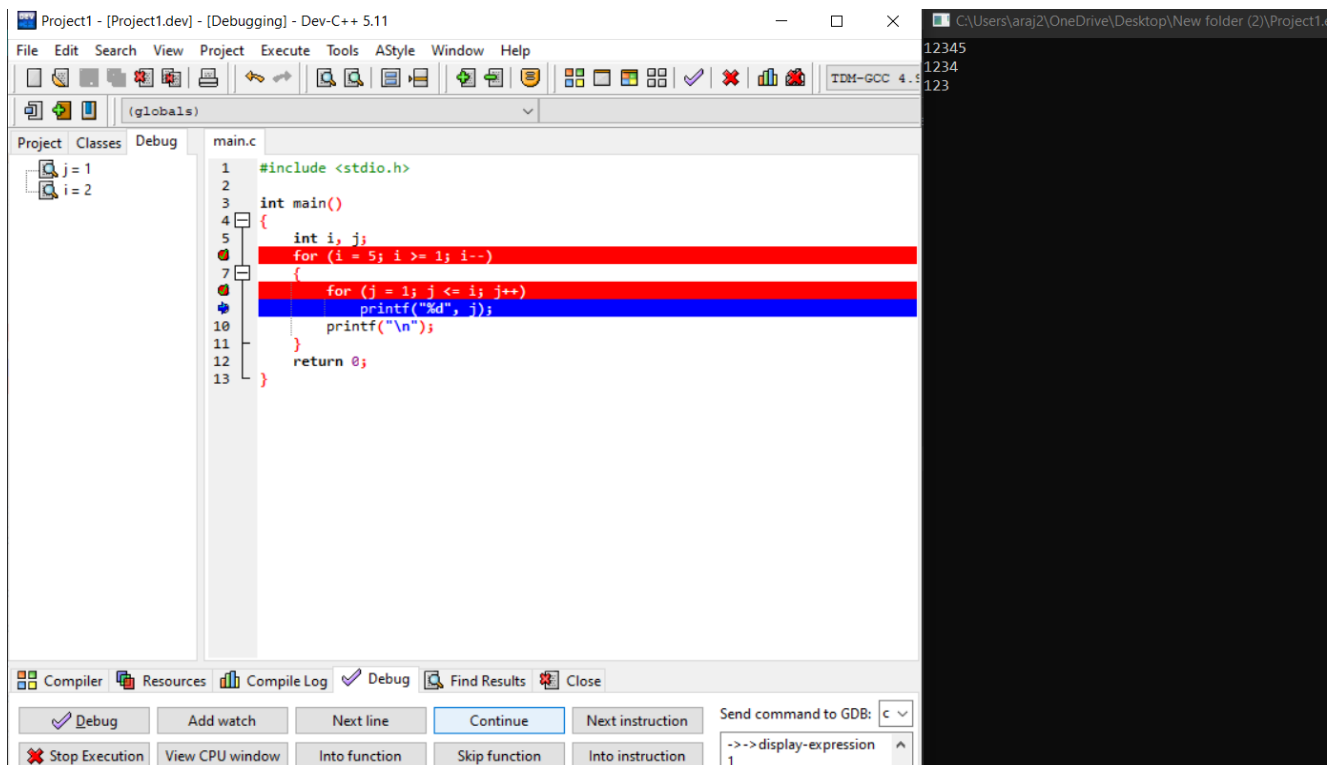
Output:

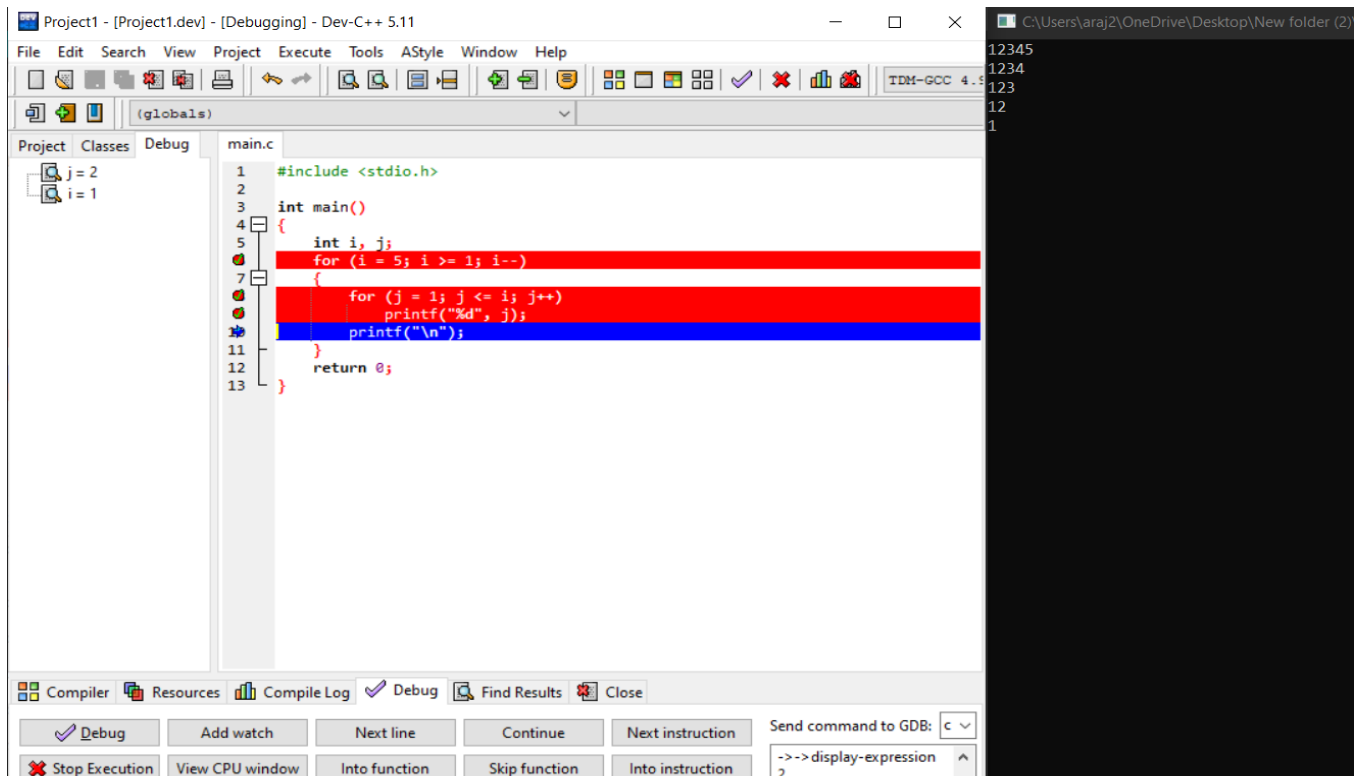


```
C:\Users\araj2\OneDrive\Desktop\New folder (2)\Project1.exe
12345
1234
123
12
1
-----
Process exited after 1.576 seconds with return value 0
Press any key to continue . . .
```

Debugging:







(b)

```

      1
     1 1
    1 2 1
   1 3 3 1
  1 4 6 4 1
 1 5 10 10 5 1

```

Main file (Code):

```

#include <stdio.h>

void main()
{
    int no_row, c = 1, blk, i, j;
    printf("Input number of rows: ");
    scanf("%d", &no_row);
    for (i = 0; i < no_row; i++)
    {
        for (blk = 1; blk <= no_row - i; blk++)
            printf(" ");
        for (j = 0; j <= i; j++)
        {
            if (j == 0 || i == 0)
                c = 1;

```

```

        else
            c = c * (i - j + 1) / j;
        printf("% 4d", c);
    }
    printf("\n");
}
return 0;
}

```

Output:

```

C:\Users\araj2\OneDrive\Desktop\New folder (2)\Project2.exe
Input number of rows: 6
    1
   1 1
  1 2 1
 1 3 3 1
1 4 6 4 1
1 5 10 10 5 1

-----
Process exited after 12.43 seconds with return value 6
Press any key to continue . . .

```

Debugging:

