```
:hetan_projects > C_experiments > exp6 > C 1_fact_bino.c > ...
      #include <stdio.h>
      int fact_rec(int n) {
          if (n == 0) return 1;
          return n * fact_rec(n - 1);
      int fact_non_rec(int n) {
          for (i = 1; i \le n; i++) {
              f = f * i;
          return f;
      int binomial(int n, int r) {
          return fact_non_rec(n) / (fact_non_rec(r) * fact_non_rec(n - r));
      int main() {
          int i, j;
          printf("Recursive: 5! = %d\n", fact_rec(5));
          printf("Non-Recursive: 5! = %d\n\n", fact_non_rec(5));
          printf("n\tr\tC(n,r)\n");
          for (i = 5; i \leftarrow 7; i++) {
              for (j = 0; j \le i; j++) {
                   printf("%d\t%d\n", i, j, binomial(i, j));
          return 0;
```

```
PROBLEMS
          OUTPUT DEBUG CONSOLE
                                  TERMINAL PORTS
PS D:\chetan_projects> & 'c:\Users\DELL\.vscode\extensions\ms-vscode
-In-sgr4l2cy.asx' '--stdout=Microsoft-MIEngine-Out-lmiibe52.ws5' '--s
=C:\msys64\ucrt64\bin\gdb.exe' '--interpreter=mi'
Recursive: 5! = 120
Non-Recursive: 5! = 120
               C(n,r)
5
       0
5
       1
               5
5
               10
5
       3
               10
5
       4
               5
       5
5
               1
6
       0
               1
       1
               6
6
6
               15
       3
6
               20
6
               15
6
               6
6
       6
               1
       0
               1
       1
               21
               35
               35
               21
       6
               1
PS D:\chetan_projects>
```