

```

chetan_projects > C_experiments > exp 3.2 > C 5_ram.c > main()
1  #include <stdio.h>
2
3  int main() {
4      int limit = 20;
5      int a, b, c, d;
6      int sum1, sum2;
7
8      printf("Ramanujan Numbers:\n\n");
9
10     for (a = 1; a <= limit; a++) {
11         for (b = a; b <= limit; b++) {
12             sum1 = a*a*a + b*b*b;
13
14             for (c = a + 1; c <= limit; c++) {
15                 for (d = c; d <= limit; d++) {
16                     sum2 = c*c*c + d*d*d;
17
18                     if (sum1 == sum2) {
19                         printf("%d = %d^3 + %d^3 = %d^3 + %d^3\n", sum1, a, b, c, d);
20                     }
21                 }
22             }
23         }
24     }
25
26     return 0;
27 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```

PS D:\chetan_projects> & 'c:\Users\DELL\.vscode\extensions\ms-vscode.cpptools-1.25.0\bin\Debug\cpptools.exe' --stdout=Microsoft-MIEngine-Out-ohngud0o.k2t' '--stderr=
=C:\msys64\ucrt64\bin\gdb.exe' '--interpreter=mi'

```

Ramanujan Numbers:

1729 = 1^3 + 12^3 = 9^3 + 10^3

4104 = 2^3 + 16^3 = 9^3 + 15^3

PS D:\chetan_projects>

Output

Ramangam Numbers :

$$17 \ 29 = 1^3 3 + 12^3 3 = 9^3 3 + 10^3 3$$

$$4104 = 2^3 3 + 16^3 3 = 4^3 3 + 15^3 3$$

Experiment No.

Name:

DATE: / /

3-2-5

#include <stdio.h>

int main () {

int limit = 20;

int a, b, c, d;

int sum1, sum2;

printf ("Ramangam numbers : ");

for (a=1; a<=limit; a++) {

for (b=a; b<=limit; b++) {

sum1 = a*a*a + b*b*b;

for (c=a+1; c<=limit; c++) {

for (d=c; d<=limit; d++) {

sum2 = c*c*c + d*d*d;

if (sum1 == sum2) {

printf ("%d^3 3 + %d^3 3 = %d^3 3 + %d^3 3\n",

sum1, a, b, c, d);

}

}

}

}

}

}

}

}