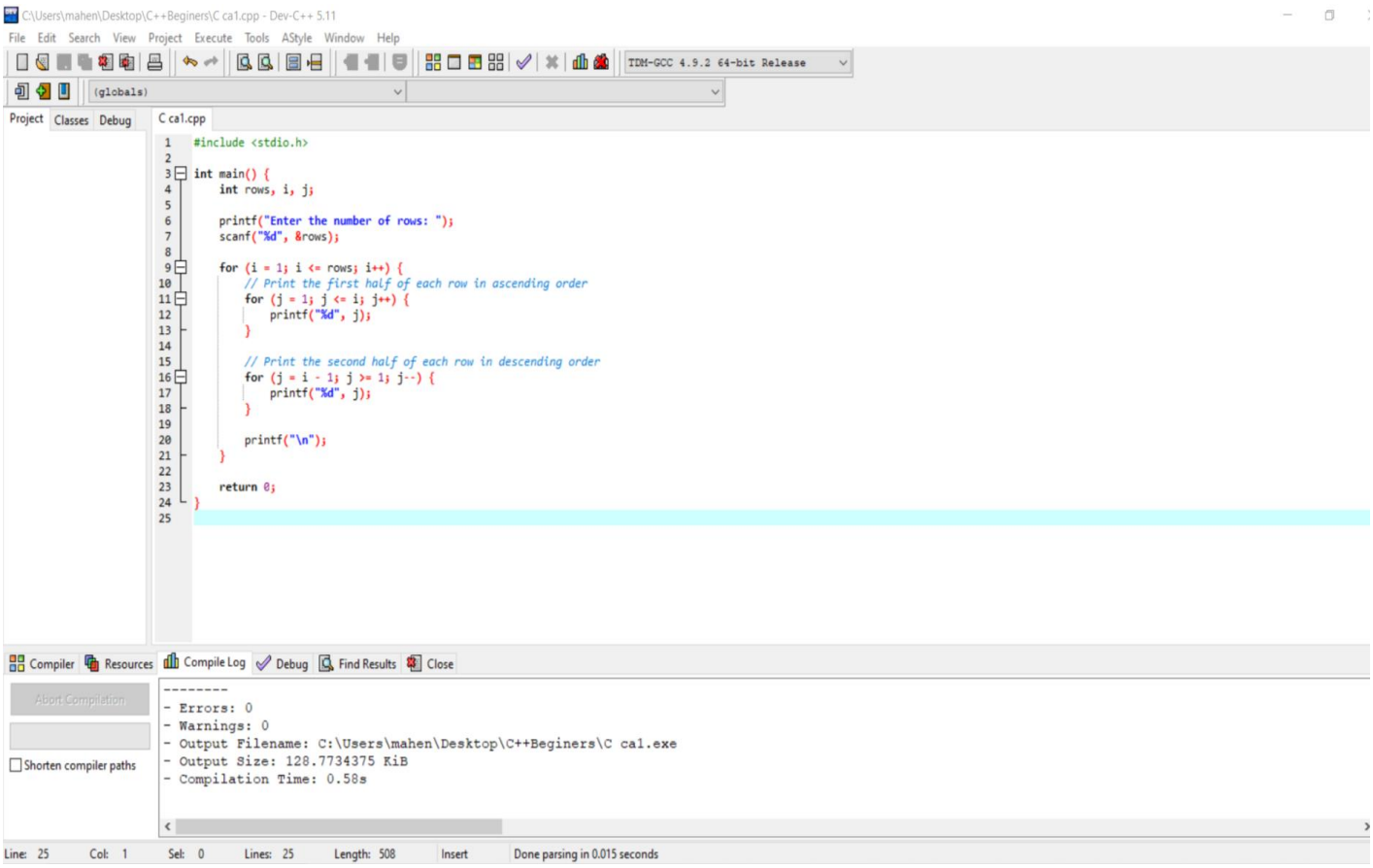

C:\Users\mahen\Desktop\C++Beginers\C ca1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
C ca1.cpp
#include <stdio.h>
int main() {
int rows, i, j;
printf("Enter the number of rows: ");
scanf("%d", &rows);
for (i = 1; i <= rows; i++) {
// Print the first half of each row in ascending order
for (j = 1; j <= i; j++) {
printf("%d", j);
}
// Print the second half of each row in descending order
for (j = i - 1; j >= 1; j--) {
printf("%d", j);
}
printf("\n");
}
return 0;
}
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\mahen\Desktop\C++Beginers\C ca1.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 0.58s
Line: 25 Col: 1 Sel: 0 Lines: 25 Length: 508 Insert Done parsing in 0.015 seconds


C:\Users\mahen\Desktop\C++Beginers\C ca1.exe
Enter the number of rows: 6
1
121
12321
1234321
123454321
12345654321

Process exited after 3.072 seconds with return value 0
Press any key to continue . . .

Q2.

[*] C ca1.cpp c ca 2q.cpp

```c
#include <stdio.h>

int main() {
    int i;
    float f;
    double d;
    char c;

    printf("Size of int: %zu bytes\n", sizeof(i));
    printf("Size of float: %zu bytes\n", sizeof(f));
    printf("Size of double: %zu bytes\n", sizeof(d));
    printf("Size of char: %zu byte\n", sizeof(c));

    return 0;
}

```

C:\Users\mahen\Desktop\C++Beginers\c ca 2q.exe

```
Size of int: 4 bytes
Size of float: 4 bytes
Size of double: 8 bytes
Size of char: 1 byte

--------------------------------
Process exited after 0.05713 seconds with return value 0
Press any key to continue . . .
```

Q3.

[*] C ca1.cpp c ca 2q.cpp

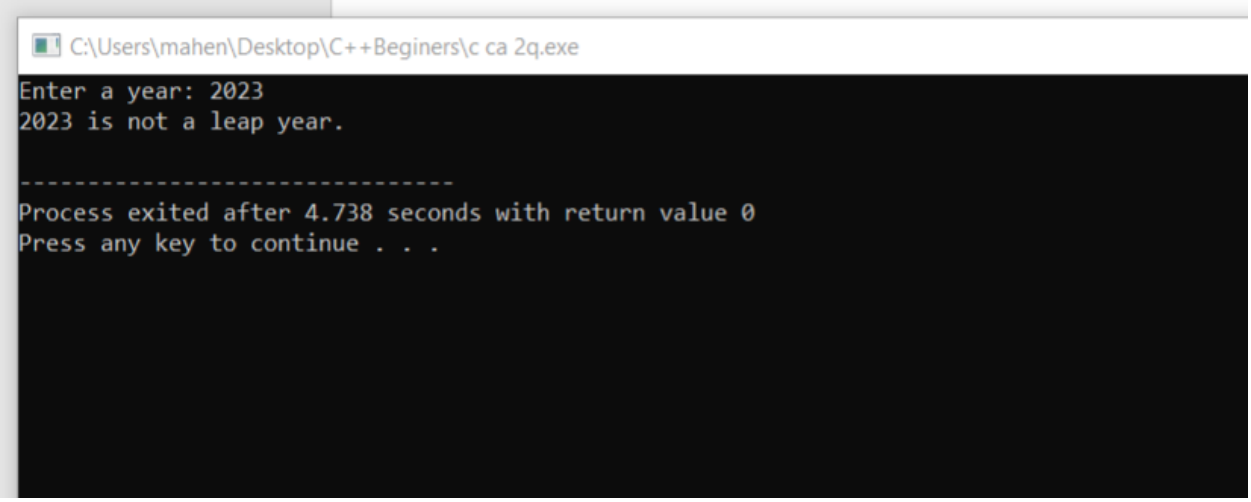
```c
#include <stdio.h>

int main() {
    int year;

    printf("Enter a year: ");
    scanf("%d", &year);

    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
        printf("%d is a leap year.\n", year);
    } else {
        printf("%d is not a leap year.\n", year);
    }

    return 0;
}
```



Q4.

[*] C ca1.cpp | c ca 2q.cpp | c ca 4q.cpp

```c
#include <stdio.h>

int main() {
    int number, i = 1;

    printf("Enter a number to print its multiplication table: ");
    scanf("%d", &number);

    printf("Multiplication Table for %d:\n", number);

    do {
        printf("%d x %d = %d\n", number, i, number * i);
        i++;
    } while (i <= 10);  // You can change 10 to any other value to print a different number of rows.

    return 0;
}
```

C:\Users\mahen\Desktop\C++Beginers\c ca 4q.exe

```
Enter a number to print its multiplication table: 6
Multiplication Table for 6:
6 x 1 = 6
6 x 2 = 12
6 x 3 = 18
6 x 4 = 24
6 x 5 = 30
6 x 6 = 36
6 x 7 = 42
6 x 8 = 48
6 x 9 = 54
6 x 10 = 60

--------------------------------
Process exited after 7.538 seconds with return value 0
Press any key to continue . . .
```

Q5.