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MATRIC NO: 19/ENG02/079

DEPARTMENT: COMPUTER ENGINEERING

COURSE: STRUCTURED PROGRAMMING ENG 224

C PROGRAMMING ASSIGNMENT

1).

```
#include<stdio.h>
```

```
#include<conio.h>
```

```
void main( )
```

```
{
```

```
    int  days ,yr,mn,wk,d;
```

```
    printf("Enter the no of days");
```

```
    scanf("%d",&days);
```

```
    yr = days /365;
```

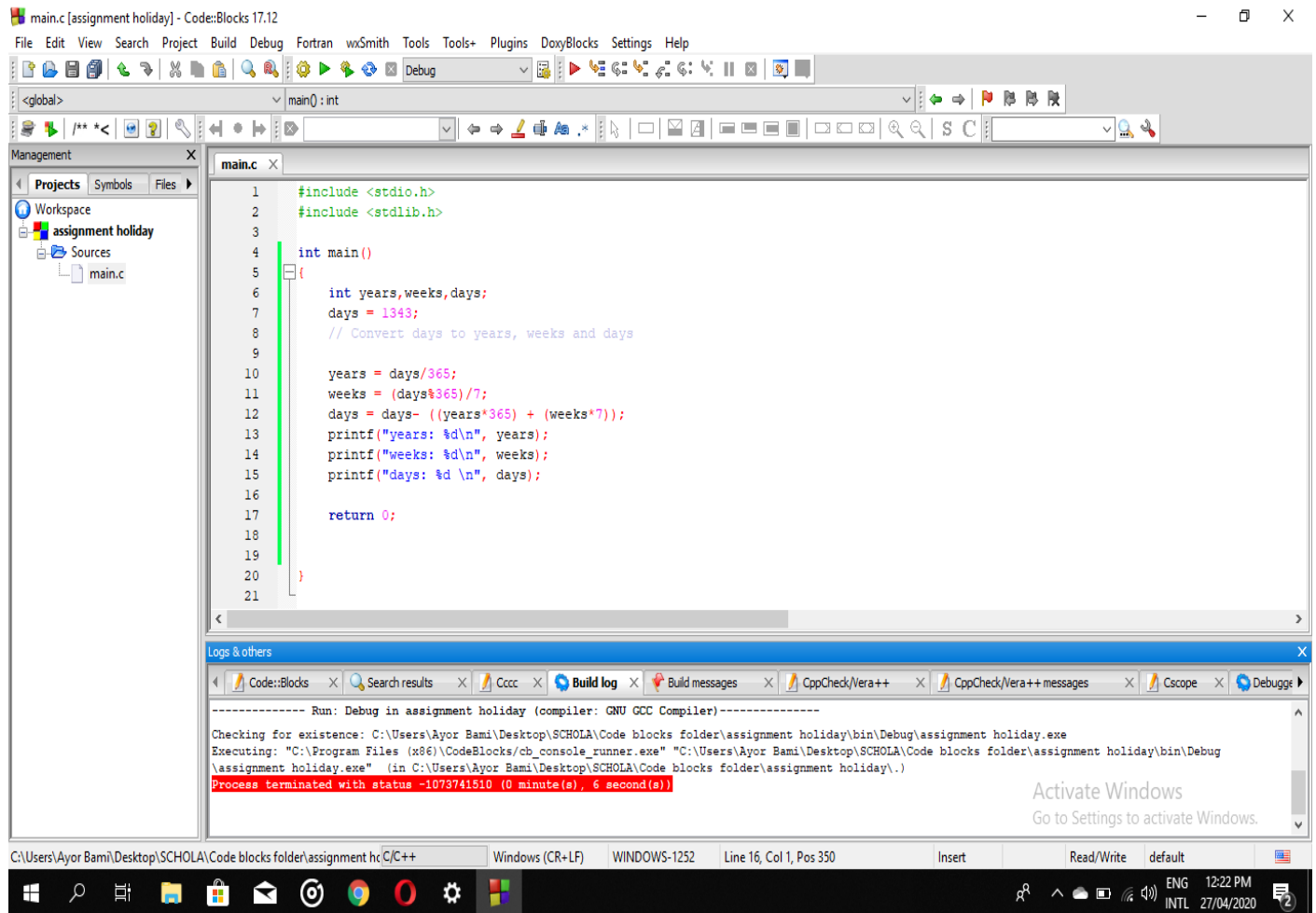
```
    mn =(days /365)/30;
```

```
    printf("Years= %d \t Months=  %d \t Weeks =%d \t days = %d",yr,mn,wk,d);
```

```
    // converts days to years, weeks and months
```

```
    getch();
```

```
}
```



2).

```
#include <stdio.h>
```

```
#include <math.h>
```

```
int main() {
```

```
    float x1, y1, x2, y2, gdistance;
```

```
    printf("Input x1: ");
```

```
    scanf("%f", &x1);
```

```

printf("Input y1: ");

scanf("%f", &y1);

printf("Input x2: ");

scanf("%f", &x2);

printf("Input y2: ");

scanf("%f", &y2);

gdistance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));

printf("Distance between the said points: %.4f", sqrt(gdistance));

printf("\n");

return 0;

}

```

ayo2.c - Code::Blocks 17.12

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main() : int

Management

Projects Symbols Files

Workspace

assignment holiday

Sources

main.c

```

1  #include <stdio.h>
2  #include <stdlib.h>
3
4  int main()
5  {
6
7      float x1, y1, x2, y2, gdistance;
8      printf("Input x1: ");
9      scanf("%f", &x1);
10     printf("Input y1: ");
11     scanf("%f", &y1);
12     printf("Input x2: ");
13     scanf("%f", &x2);
14     printf("Input y2: ");
15     scanf("%f", &y2);
16     gdistance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
17     printf("Distance between the said points: %.4f", sqrt(gdistance));
18     printf("\n");
19
20     return 0;
21 }

```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages

Run: Debug in assignment holiday (compiler: GNU GCC Compiler)

Checking for existence: C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\bin\Debug\assignment holiday.exe

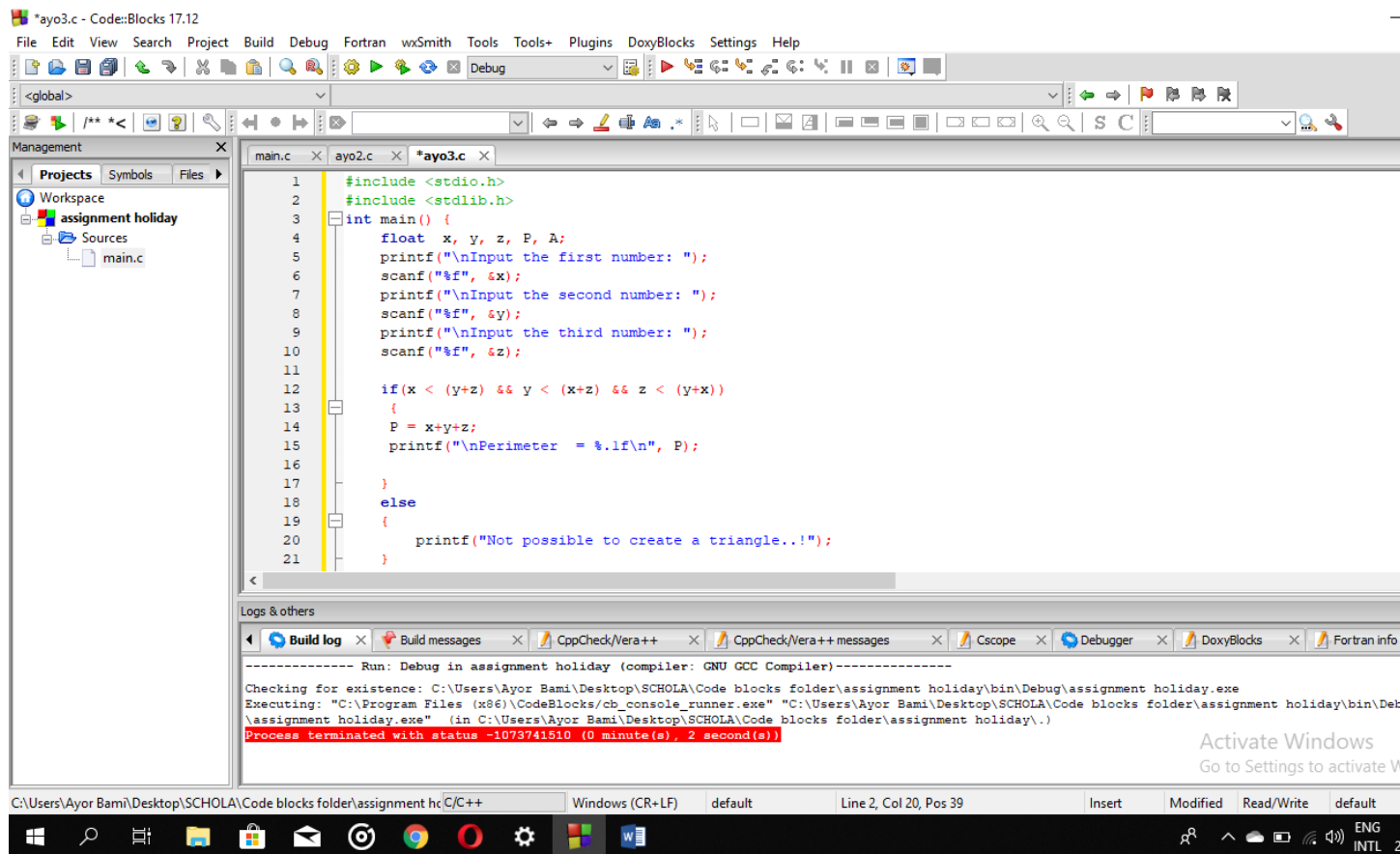
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\assignment holiday.exe" (in C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\.)

Process terminated with status -1073741510 (0 minute(s), 2 second(s))

C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment hc\C/C++ Windows (CR+LF) default Line 19, Col 1, Pos 413 Insert Read/Write

3).

```
int main() {  
    float x, y, z, P, A;  
    printf("\nInput the first number: ");  
    scanf("%f", &x);  
    printf("\nInput the second number: ");  
    scanf("%f", &y);  
    printf("\nInput the third number: ");  
    scanf("%f", &z);  
  
    if(x < (y+z) && y < (x+z) && z < (y+x))  
    {  
        P = x+y+z;  
        printf("\nPerimeter = %.1f\n", P);  
    }  
    else  
    {  
        printf("Not possible to create a triangle..!");  
    }  
}
```



4)

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int age;
```

```
    int cnt_baby=0,cnt_school=0,cnt_adult=0;
```

```
    int count=0;
```

```
    while(count<20)
```

```
{  
  
    printf("Enter age of person [%d]: ",count+1);  
    scanf("%d",&age);  
  
    if(age>=0 && age<=4)  
        cnt_baby++;  
    else if(age>=5 && age<=17)  
        cnt_school++;  
    else  
        cnt_adult++;  
  
    // increasing the number of years by 1  
    count++;  
}  
  
printf("Baby age: %d\n",cnt_baby);  
printf("School age: %d\n",cnt_school);  
printf("Adult age: %d\n",cnt_adult);  
return 0;  
}
```

*ayor4.c - Code::Blocks 17.12

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<global>



Management

Projects Symbols Files

Workspace

assignment holiday

Sources

main.c

main.c x ayo2.c x *ayo3.c x *ayor4.c x

```
1 #include <stdio.h>
2 int main()
3 {
4     int age;
5     int cnt_baby=0, cnt_school=0, cnt_adult=0;
6     int count=0;
7
8     while(count<20)
9     {
10         printf("Enter age of person [%d]: ", count+1);
11         scanf("%d", &age);
12
13         if(age>=0 && age<=4)
14             cnt_baby++;
15         else if(age>=5 && age<=17)
16             cnt_school++;
17         else
18             cnt_adult++;
19         // increasing the number of years by 1
20         count++;
21     }
```

Logs & others

Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlox

----- Run: Debug in assignment holiday (compiler: GNU GCC Compiler)-----
Checking for existence: C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\bin\Debug\assignment holiday.exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday.exe" (in C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\.)
Process terminated with status -1073741510 (0 minute(s), 2 second(s))

C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\bin\Debug\assignment holiday.exe

Windows (CR+LF)

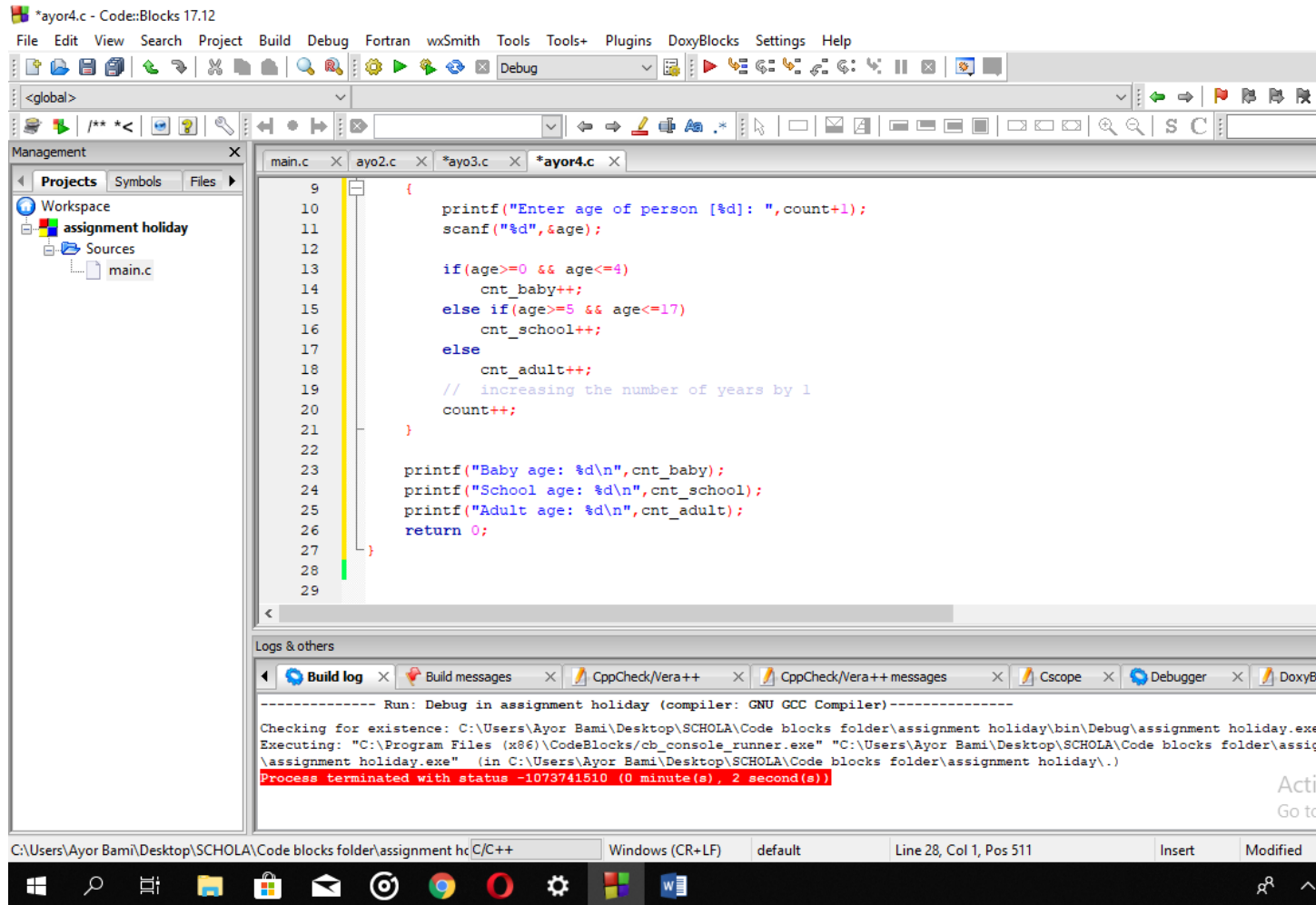
default

Line 28, Col 1, Pos 511

Insert

Modified





5)

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <time.h>
```



```
int main()
{
    int random_genNo=0,count=0,num;
    int shorttime;
    long longtime;

    longtime = time(NULL);
    shorttime = (unsigned) longtime/2;
    srand(shorttime);

    //generates random number
    random_genNo=rand()%100;

    //run infinite loop
    while(1)
    {
        //increase counter
        count+=1;

        //read number from user
        printf("\n\nGuess a number from (0 to 100): ");
        scanf("%d",&num);

        //compare entered number with generated number

        if(random_genNo==num){
            printf("Congratulations, you have guessed a correct number.");
            break;
        }
    }
}
```

```
}  
else if(random_genNo<num){  
    printf("Generated number is less than entered number, try your luck again...");  
}  
else if(random_genNo>num){  
    printf("Generated number is greater than entered number, try your luck again...");  
}  
  
if(count==7){  
    printf("\n\nMaximum limit of attempt finished, GAME OVER FOR YOU!\n");  
    break;  
}  
}  
  
return 0;  
}
```

*ayo5.c - Code::Blocks 17.12

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Debug

<global>

Management

Projects Symbols Files

Workspace
assignment holiday
Sources
main.c

main.c x ayo2.c x *ayo3.c x *ayor4.c x *ayo5.c x

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4
5
6 int main()
7 {
8     int random_genNo=0, count=0, num;
9     int shorttime;
10    long longtime;
11
12    longtime = time(NULL);
13    shorttime = (unsigned) ltime/2;
14    srand(shorttime);
15
16    //generates random number
17    random_genNo=rand()%100;
18
19    //run infinite loop
20    while(1)
21    {
```

Logs & others

Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cs

----- Run: Debug in assignment holiday (compiler: GNU GCC Compiler)-----
Checking for existence: C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment holiday\
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\Ayor Bami\Desktop\
\assignment holiday.exe" (in C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment ho
Process terminated with status -1073741510 (0 minute(s), 2 second(s))

C:\Users\Ayor Bami\Desktop\SCHOLA\Code blocks folder\assignment hc/C/C++

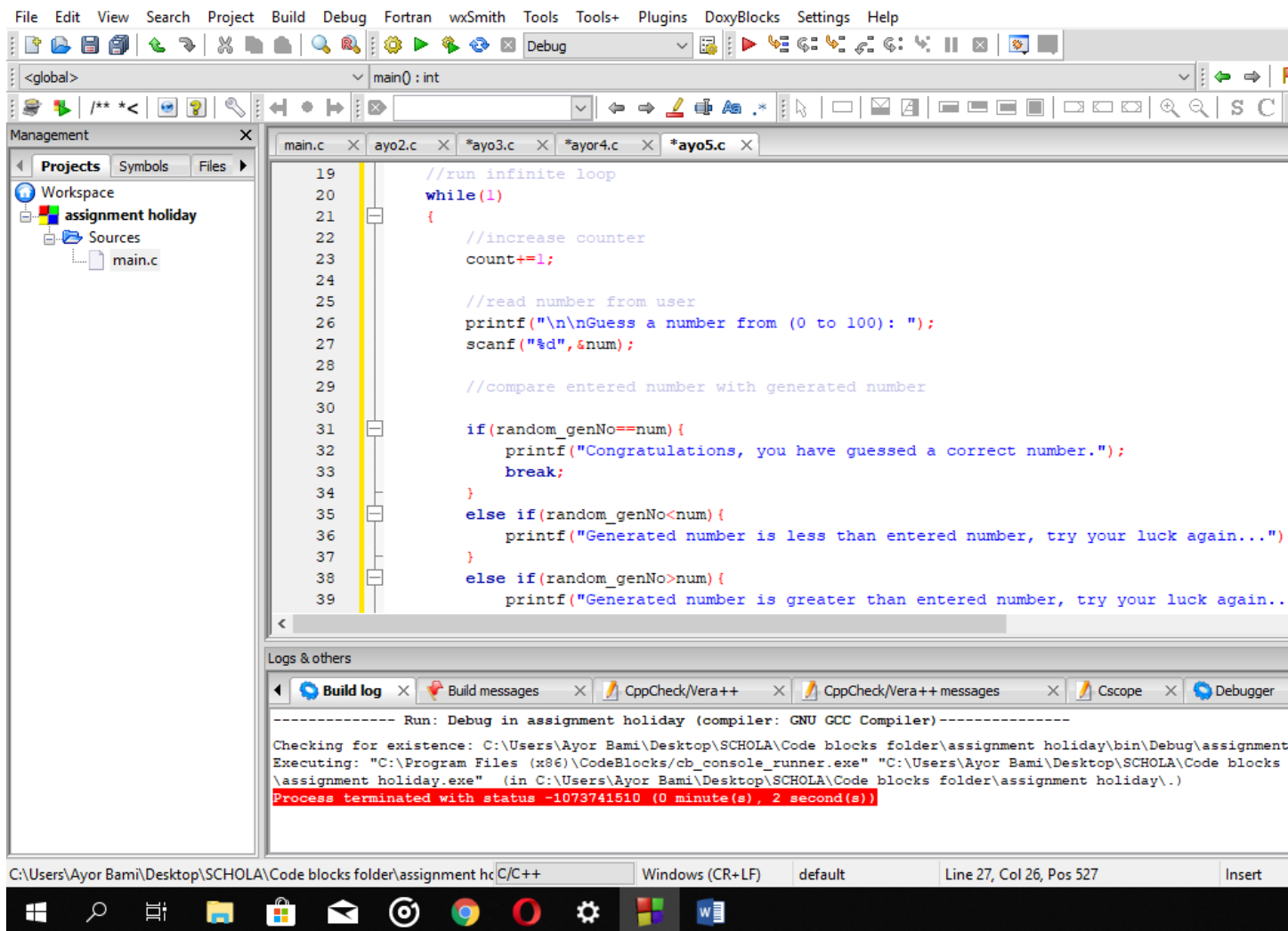
Windows (CR+LF)

default

Line 55, Col 1, Pos 1197



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