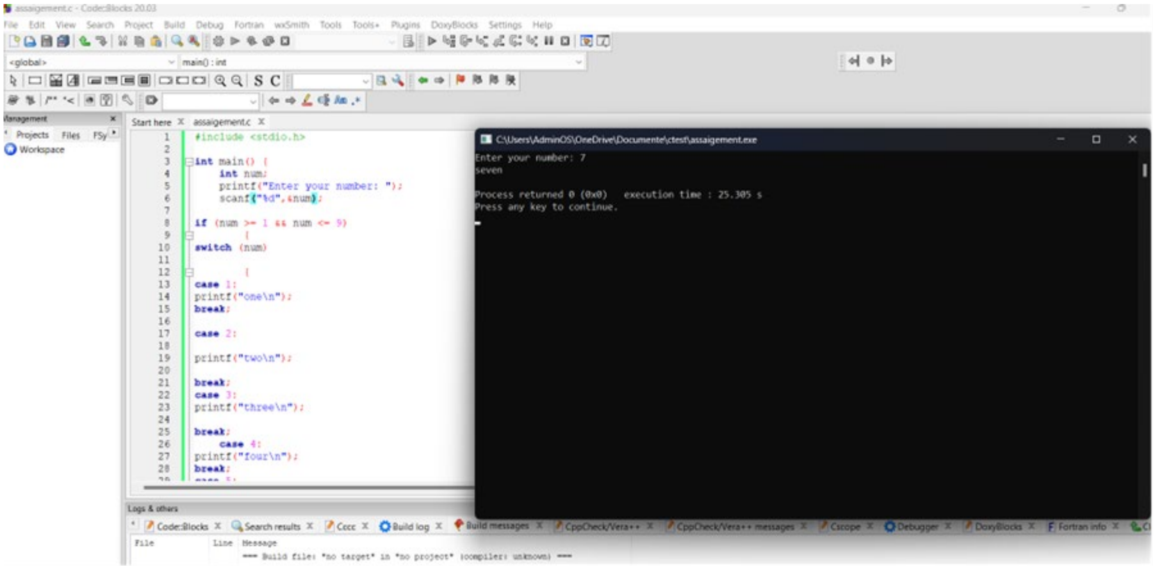
Week 4 task

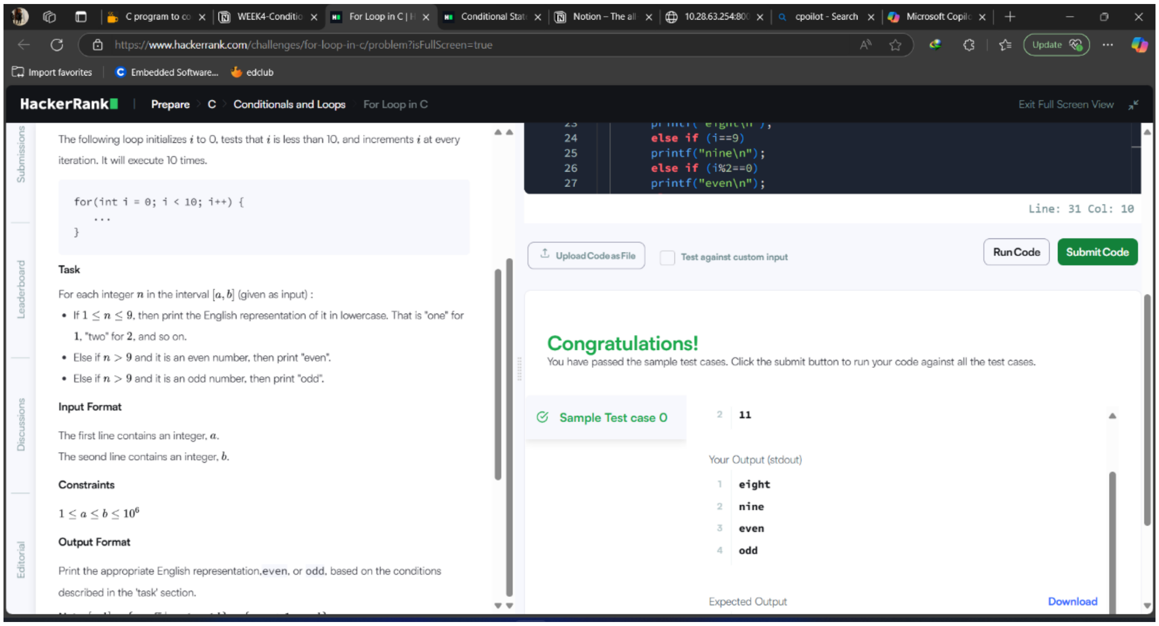
1 – hacker rank



```c
#include <stdio.h>

int main() {
    int num;
    printf("Enter your number: ");
    scanf("%d",&num);

if (num >= 1 && num <= 9)
        {
switch (num)

        {
case 1:
printf("one\n");
break;

case 2:

printf("two\n");

break;
case 3:
printf("three\n");

break;
    case 4:
printf("four\n");
break;
case 5:
```

```
Enter your number: 7
seven

Process returned 0 (0x0)   execution time : 25.305 s
Press any key to continue.
```

```
File          Line   Message
                     === Build file: "no target" in "no project" (compiler: unknown) ===
```



The following loop initializes i to 0, tests that i is less than 10, and increments i at every iteration. It will execute 10 times.

```c
for(int i = 0; i < 10; i++) {
    ...
}
```

Task

For each integer n in the interval $[a, b]$ (given as input) :

- If $1 \leq n \leq 9$, then print the English representation of it in lowercase. That is "one" for 1, "two" for 2, and so on.
- Else if $n > 9$ and it is an even number, then print "even".
- Else if $n > 9$ and it is an odd number, then print "odd".

Input Format

The first line contains an integer, a.

The seond line contains an integer, b.

Constraints

$1 \leq a \leq b \leq 10^6$

Output Format

Print the appropriate English representation, even, or odd, based on the conditions described in the 'task' section.

```c
            printf("eight\n");
            else if (i==9)
            printf("nine\n");
            else if (i%2==0)
            printf("even\n");
```

Line: 31 Col: 10

□ Test against custom input

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

✓ Sample Test case 0

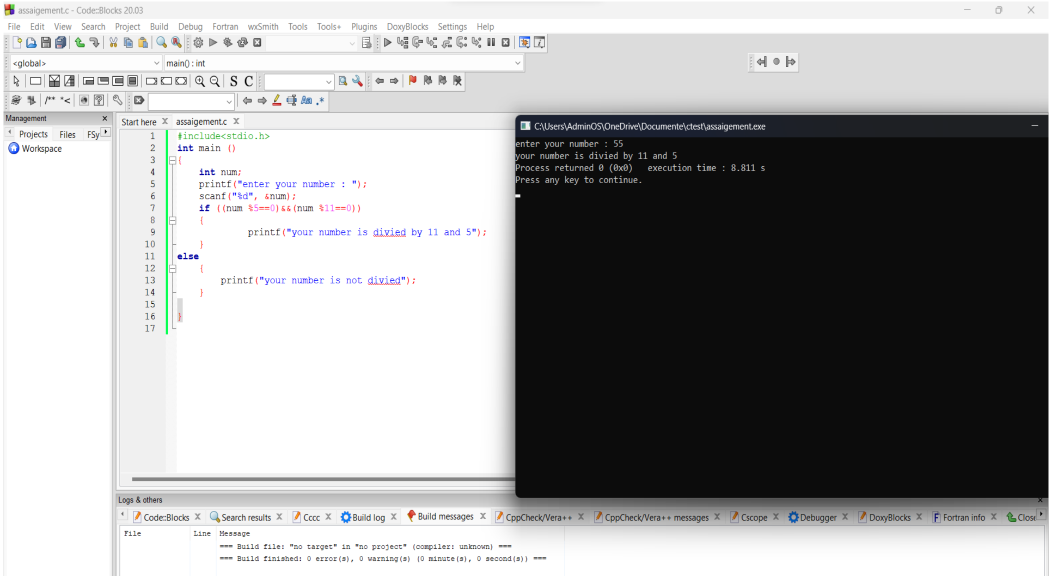
```
2  11
```

Your Output (stdout)

```
1  eight
2  nine
3  even
4  odd
```

Expected Output

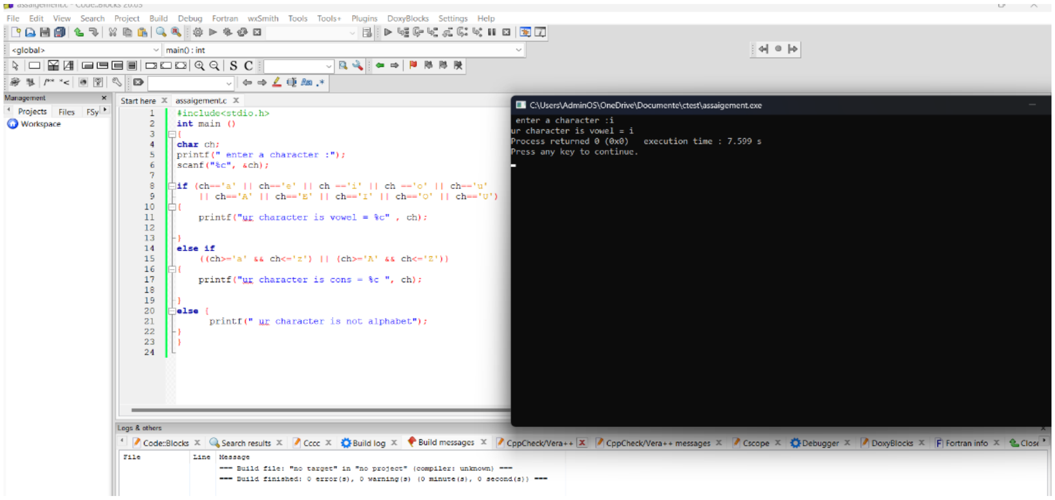
2- if task



```c
#include<stdio.h>
int main ()
{
    int num;
    printf("enter your number : ");
    scanf("%d", &num);
    if ((num %5==0)&&(num %11==0))
    {
              printf("your number is divied by 11 and 5");
    }
else
    {
        printf("your number is not divied");
    }

}
```

```
enter your number : 55
your number is divied by 11 and 5
Process returned 0 (0x0)   execution time : 8.811 s
Press any key to continue.
```

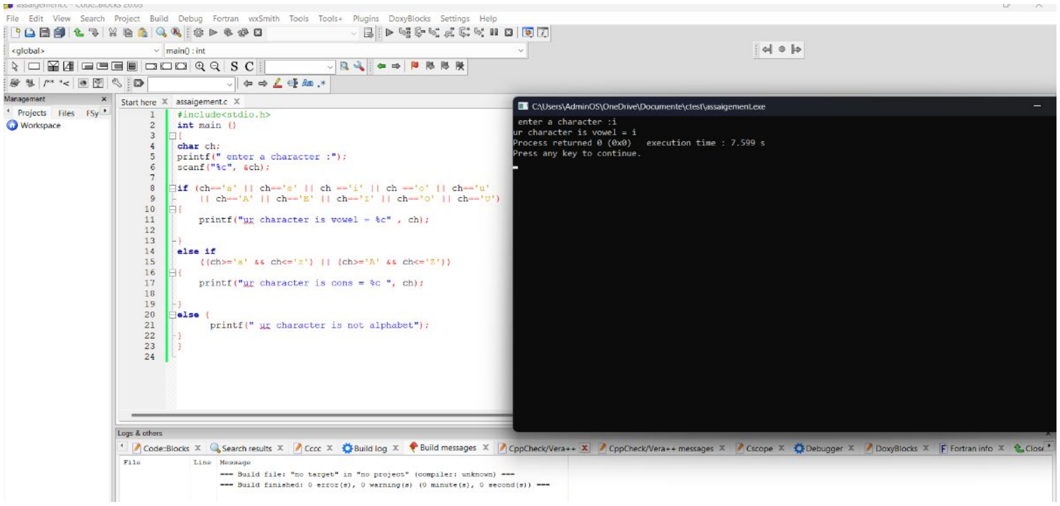
```
File          Line  Message
                    === Build file: "no target" in "no project" (compiler: unknown) ===
                    === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```



```c
#include<stdio.h>
int main ()
{
char ch;
printf(" enter a character :");
scanf("%c", &ch);

if (ch=='a' || ch=='e' || ch =='i' || ch =='o' || ch=='u'
    || ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
{
    printf("ur character is vowel = %c" , ch);

}
else if
    ((ch>='a' && ch<='z') || (ch>='A' && ch<='Z'))
{
    printf("ur character is cons = %c ", ch);

}
else {
      printf(" ur character is not alphabet");
}
}
```

```
 enter a character :i
ur character is vowel = i
Process returned 0 (0x0)   execution time : 7.599 s
Press any key to continue.
```

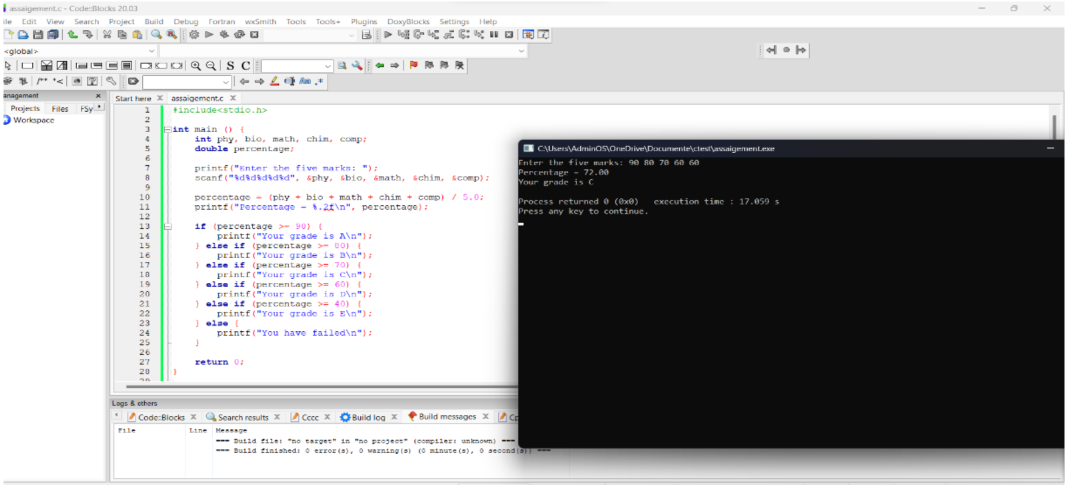
```
File          Line  Message
                    === Build file: "no target" in "no project" (compiler: unknown) ===
                    === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```



```c
#include<stdio.h>
int main ()
{
char ch;
printf(" enter a character :");
scanf("%c", &ch);

if (ch=='a' || ch=='e' || ch =='i' || ch =='o' || ch=='u'
    || ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')
{
    printf("ur character is vowel = %c" , ch);

}
else if
    ((ch>='a' && ch<='z') || (ch>='A' && ch<='Z'))
{
    printf("ur character is cons = %c ", ch);

}
else {
      printf(" ur character is not alphabet");
}
}
```

```
 enter a character :i
ur character is vowel = i
Process returned 0 (0x0)   execution time : 7.599 s
Press any key to continue.
```

```
File          Line  Message
                    === Build file: "no target" in "no project" (compiler: unknown) ===
                    === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```



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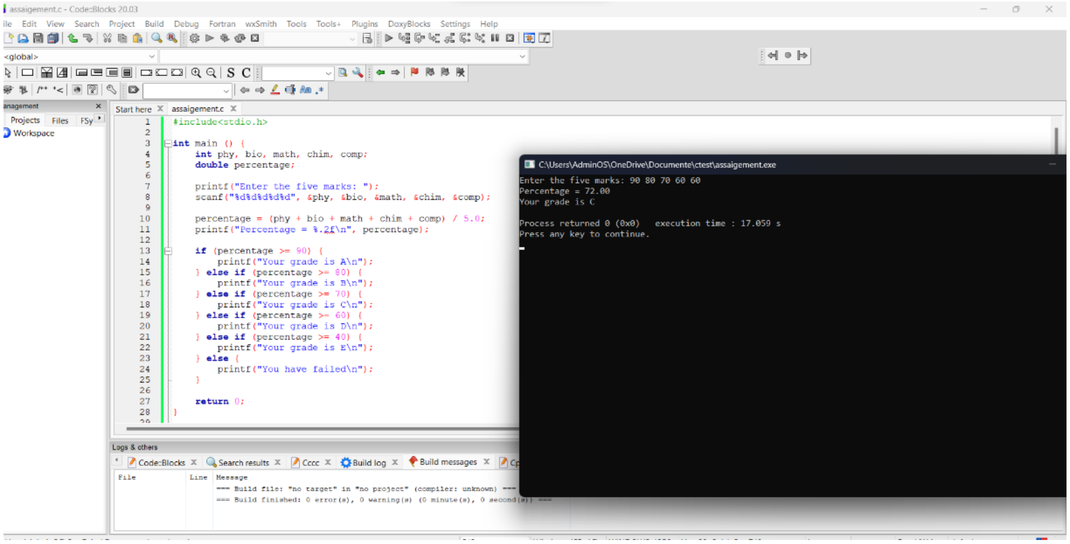
<global>
Management
Projects Files FSy
Workspace
Start here
assaigement.c
Logs & others
Code::Blocks Search results Cccc Build log Build messages

```c
#include<stdio.h>

int main () {
    int phy, bio, math, chim, comp;
    double percentage;

    printf("Enter the five marks: ");
    scanf("%d%d%d%d%d", &phy, &bio, &math, &chim, &comp);

    percentage = (phy + bio + math + chim + comp) / 5.0;
    printf("Percentage = %.2f\n", percentage);

    if (percentage >= 90) {
        printf("Your grade is A\n");
    } else if (percentage >= 80) {
        printf("Your grade is B\n");
    } else if (percentage >= 70) {
        printf("Your grade is C\n");
    } else if (percentage >= 60) {
        printf("Your grade is D\n");
    } else if (percentage >= 40) {
        printf("Your grade is E\n");
    } else {
        printf("You have failed\n");
    }

    return 0;
}
```

C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe

```
Enter the five marks: 90 80 70 60 60
Percentage = 72.00
Your grade is C

Process returned 0 (0x0)   execution time : 17.059 s
Press any key to continue.
```

```
File        Line  Message
                  === Build file: "no target" in "no project" (compiler: unknown) ===
                  === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```



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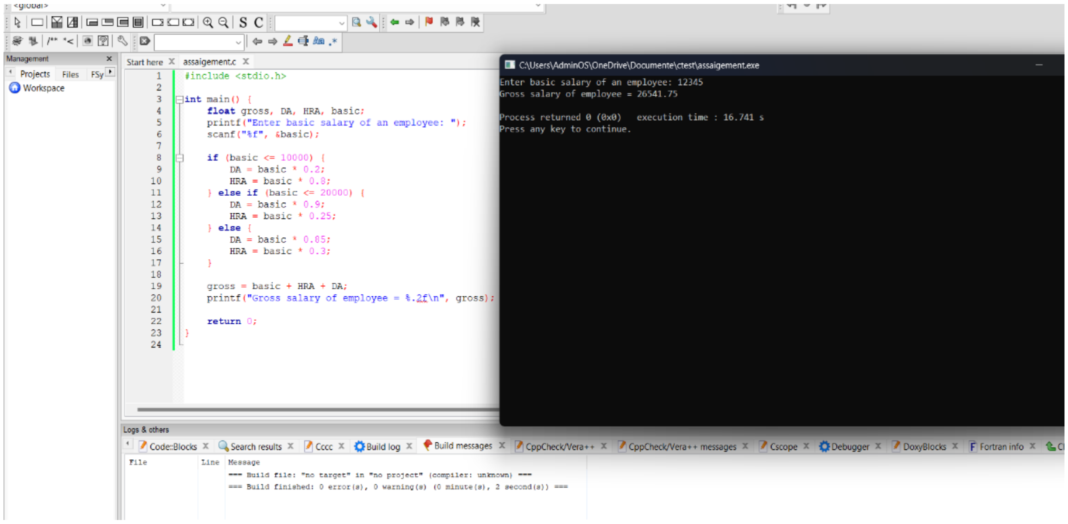
Management
Projects Files FSy
Workspace
Start here
assaigement.c
Logs & others
Code::Blocks Search results Cccc Build log Build messages

```c
#include<stdio.h>

int main () {
    int phy, bio, math, chim, comp;
    double percentage;

    printf("Enter the five marks: ");
    scanf("%d%d%d%d%d", &phy, &bio, &math, &chim, &comp);

    percentage = (phy + bio + math + chim + comp) / 5.0;
    printf("Percentage = %.2f\n", percentage);

    if (percentage >= 90) {
        printf("Your grade is A\n");
    } else if (percentage >= 80) {
        printf("Your grade is B\n");
    } else if (percentage >= 70) {
        printf("Your grade is C\n");
    } else if (percentage >= 60) {
        printf("Your grade is D\n");
    } else if (percentage >= 40) {
        printf("Your grade is E\n");
    } else {
        printf("You have failed\n");
    }

    return 0;
}
```

C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe

```
Enter the five marks: 90 80 70 60 60
Percentage = 72.00
Your grade is C

Process returned 0 (0x0)   execution time : 17.059 s
Press any key to continue.
```

```
File        Line  Message
                  === Build file: "no target" in "no project" (compiler: unknown) ===
                  === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```



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Management
Projects Files FSy
Workspace
Start here
assaigement.c
Logs & others
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info

```c
#include <stdio.h>

int main() {
    float gross, DA, HRA, basic;
    printf("Enter basic salary of an employee: ");
    scanf("%f", &basic);

    if (basic <= 10000) {
        DA = basic * 0.2;
        HRA = basic * 0.8;
    } else if (basic <= 20000) {
        DA = basic * 0.9;
        HRA = basic * 0.25;
    } else {
        DA = basic * 0.85;
        HRA = basic * 0.3;
    }

    gross = basic + HRA + DA;
    printf("Gross salary of employee = %.2f\n", gross);

    return 0;
}
```

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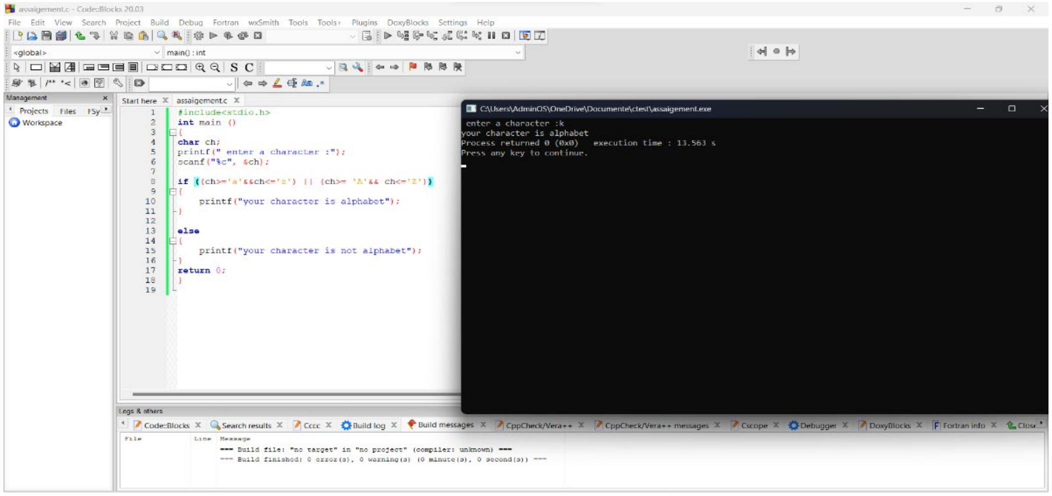
```
Enter basic salary of an employee: 12345
Gross salary of employee = 26541.75

Process returned 0 (0x0)   execution time : 16.741 s
Press any key to continue.
```

```
File        Line  Message
                  === Build file: "no target" in "no project" (compiler: unknown) ===
                  === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 2 second(s)) ===
```


assaigement.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Close

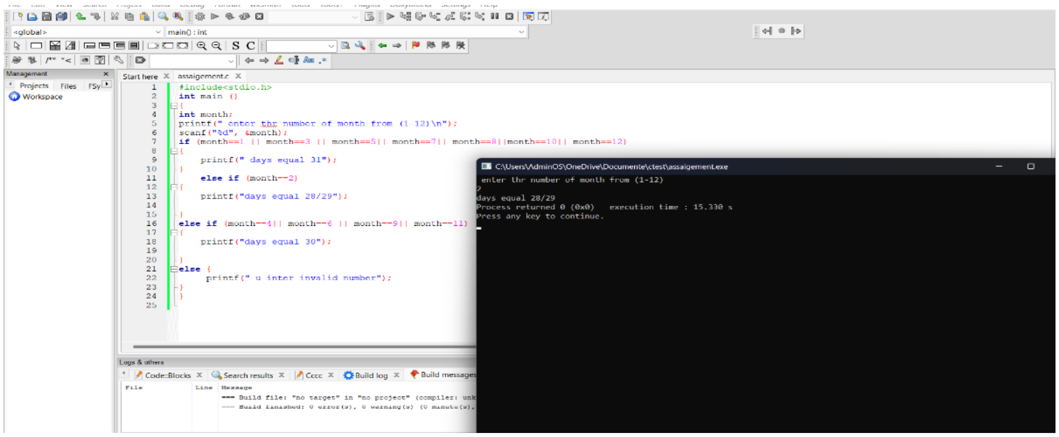
```c
#include<stdio.h>
int main ()
{
char ch;
printf(" enter a character :");
scanf("%c", &ch);

if ((ch>='a'&&ch<='z') || (ch>= 'A'&& ch<='Z'))
{
    printf("your character is alphabet");
}

else
{
    printf("your character is not alphabet");
}
return 0;
}
```

```
 enter a character :k
your character is alphabet
Process returned 0 (0x0)   execution time : 13.563 s
Press any key to continue.
```

```
File    Line  Message
              === Build file: "no target" in "no project" (compiler: unknown) ===
              === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```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main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks Search results Cccc Build log Build messages

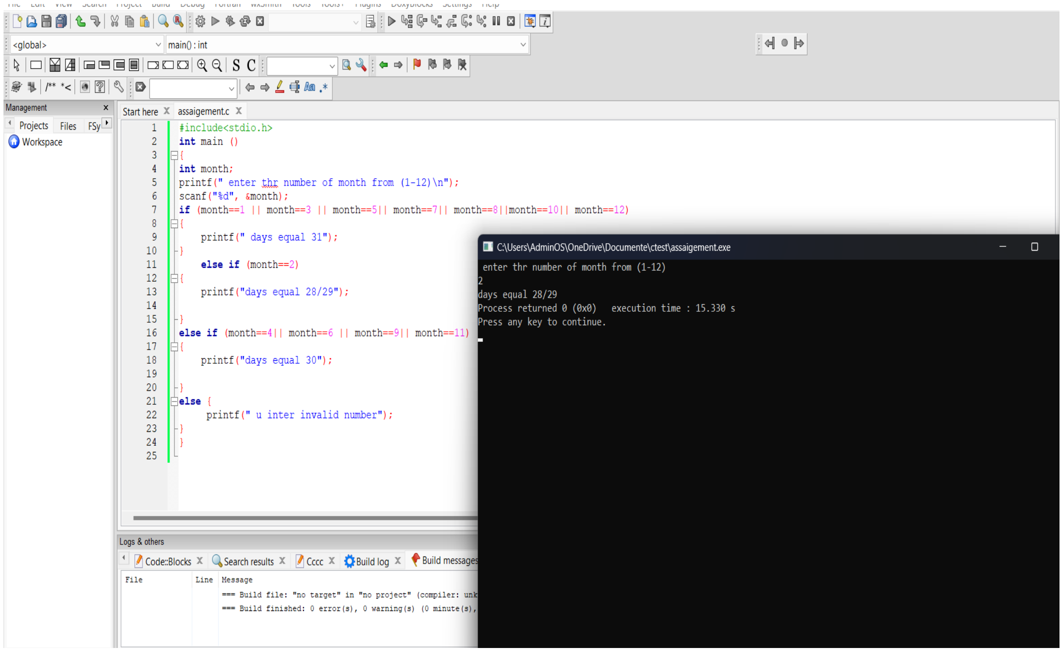
```c
#include<stdio.h>
int main ()
{
int month;
printf(" enter thr number of month from (1-12)\n");
scanf("%d", &month);
if (month==1 || month==3 || month==5|| month==7|| month==8||month==10|| month==12)
{
    printf(" days equal 31");
}
    else if (month==2)
{
    printf("days equal 28/29");

}
else if (month==4|| month==6 || month==9|| month==11)
{
    printf("days equal 30");

}
else {
     printf(" u inter invalid number");
}
}
```

```
 enter thr number of month from (1-12)
2
days equal 28/29
Process returned 0 (0x0)   execution time : 15.330 s
Press any key to continue.
```

```
File    Line  Message
              === Build file: "no target" in "no project" (compiler: unk
              === Build finished: 0 error(s), 0 warning(s) (0 minute(s),
```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main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks Search results Cccc Build log Build message

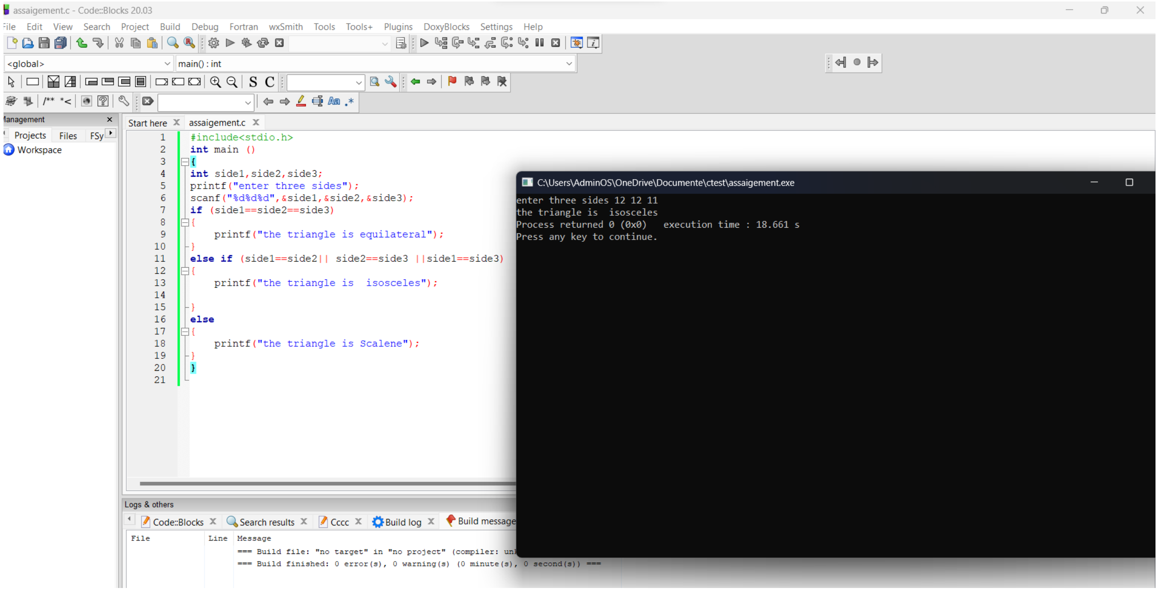
```c
#include<stdio.h>
int main ()
{
int month;
printf(" enter thr number of month from (1-12)\n");
scanf("%d", &month);
if (month==1 || month==3 || month==5|| month==7|| month==8||month==10|| month==12)
{
    printf(" days equal 31");
}
    else if (month==2)
{
    printf("days equal 28/29");

}
else if (month==4|| month==6 || month==9|| month==11)
{
    printf("days equal 30");

}
else {
     printf(" u inter invalid number");
}
}
```

```
 enter thr number of month from (1-12)
2
days equal 28/29
Process returned 0 (0x0)   execution time : 15.330 s
Press any key to continue.
```

```
File    Line  Message
              === Build file: "no target" in "no project" (compiler: unk
              === Build finished: 0 error(s), 0 warning(s) (0 minute(s),
```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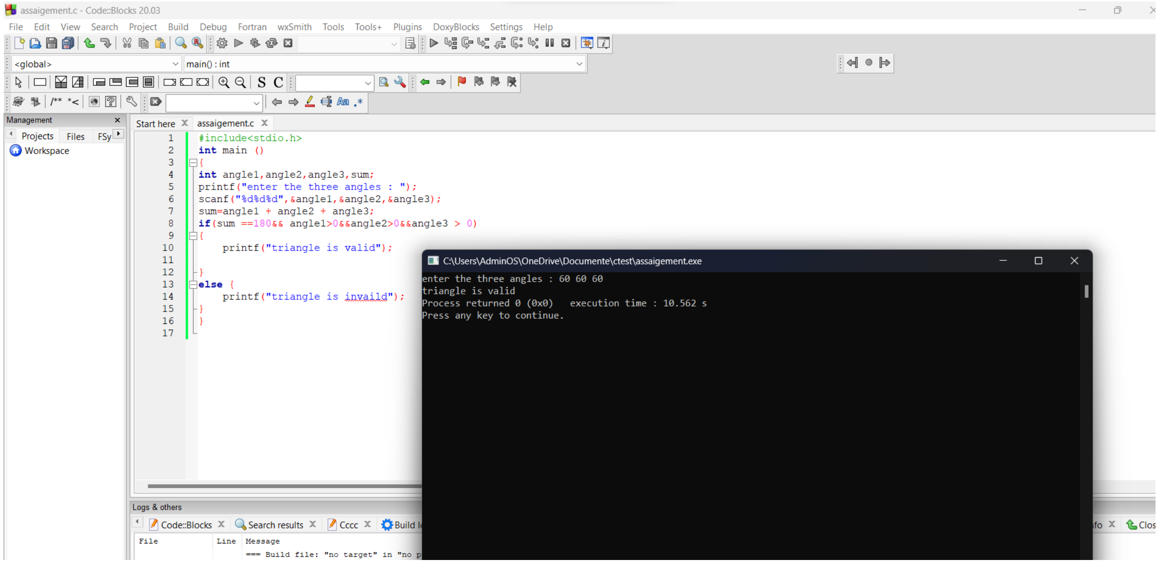
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build message

```c
#include<stdio.h>
int main  ()
{
int side1,side2,side3;
printf("enter three sides");
scanf("%d%d%d",&side1,&side2,&side3);
if (side1==side2==side3)
{
    printf("the triangle is equilateral");
}
else if (side1==side2|| side2==side3 ||side1==side3)
{
    printf("the triangle is  isosceles");

}
else
{
    printf("the triangle is Scalene");
}
}
```

```
enter three sides 12 12 11
the triangle is  isosceles
Process returned 0 (0x0)   execution time : 18.661 s
Press any key to continue.
```

```
File          Line  Message
                    === Build file: "no target" in "no project" (compiler: unk
                    === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```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File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
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main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks
Search results
Cccc
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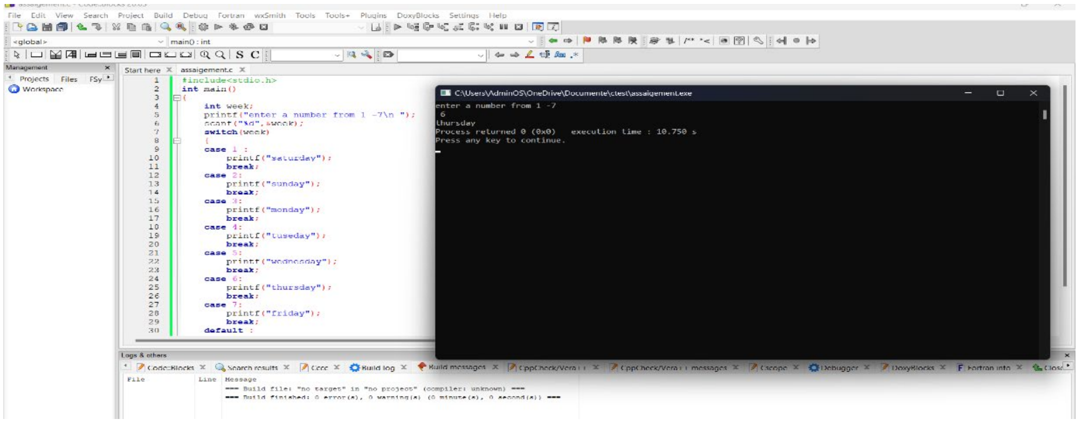
```c
#include<stdio.h>
int main  ()
{
int angle1,angle2,angle3,sum;
printf("enter the three angles : ");
scanf("%d%d%d",&angle1,&angle2,&angle3);
sum=angle1 + angle2 + angle3;
if(sum ==180&& angle1>0&&angle2>0&&angle3 > 0)
{
    printf("triangle is valid");

}
else {
    printf("triangle is invaild");
}
}
```

```
enter the three angles : 60 60 60
triangle is valid
Process returned 0 (0x0)   execution time : 10.562 s
Press any key to continue.
```

```
File          Line  Message
                    === Build file: "no target" in "no p
```

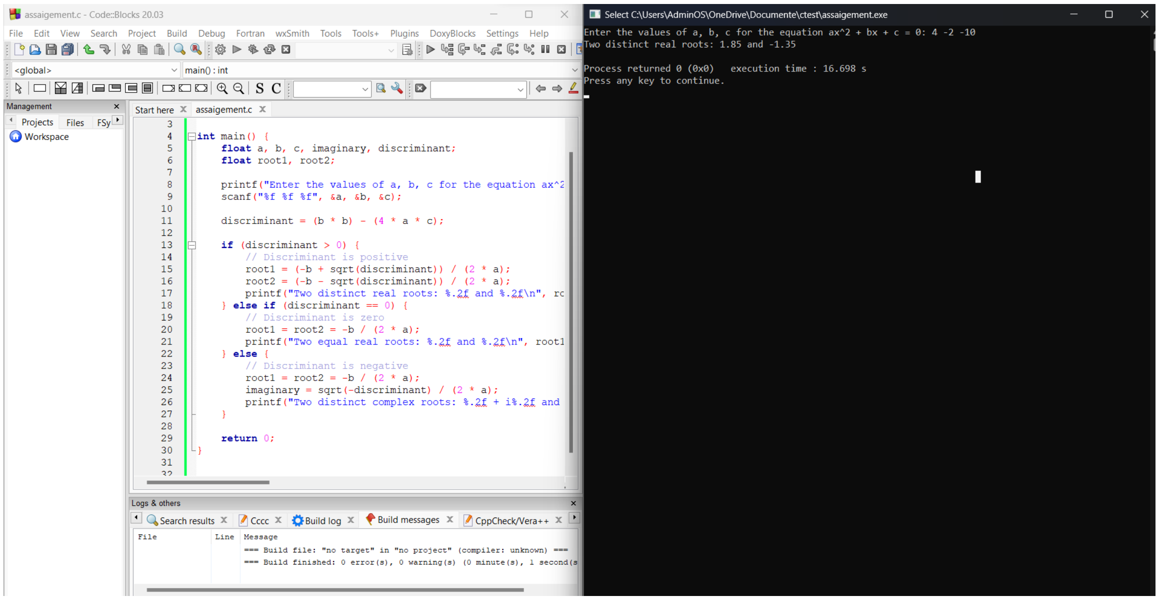
3 - Switch task



```c
#include<stdio.h>
int main()
{
    int week;
    printf("enter a number from 1 -7\n ");
    scanf("%d",&week);
    switch(week)
    {
    case 1 :
        printf("saturday");
        break;
    case 2:
        printf("sunday");
        break;
    case 3:
        printf("monday");
        break;
    case 4:
        printf("tuseday");
        break;
    case 5:
        printf("wednesday");
        break;
    case 6:
        printf("thursday");
        break;
    case 7:
        printf("friday");
        break;
    default :
```

```
enter a number from 1 -7
 6
thursday
Process returned 0 (0x0)   execution time : 10.750 s
Press any key to continue.
```

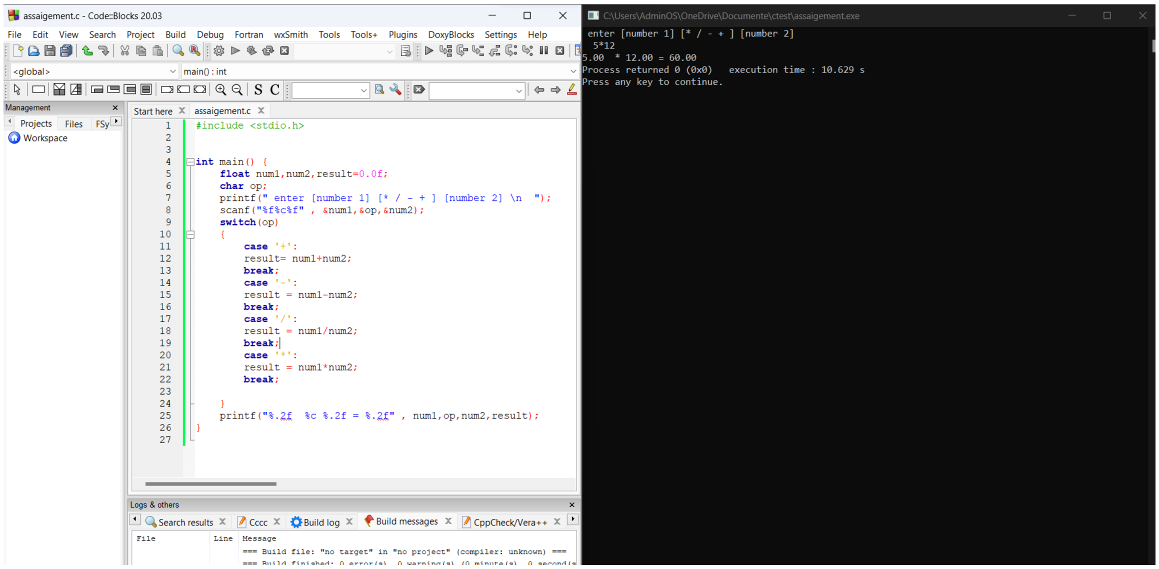
```
File          Line  Message
                    === Build file: "no target" in "no project" (compiler: unknown) ===
                    === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===
```


assaigement.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
Logs & others
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
Select C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe

```c

int main() {
    float a, b, c, imaginary, discriminant;
    float root1, root2;

    printf("Enter the values of a, b, c for the equation ax^2
    scanf("%f %f %f", &a, &b, &c);

    discriminant = (b * b) - (4 * a * c);

    if (discriminant > 0) {
        // Discriminant is positive
        root1 = (-b + sqrt(discriminant)) / (2 * a);
        root2 = (-b - sqrt(discriminant)) / (2 * a);
        printf("Two distinct real roots: %.2f and %.2f\n", rc
    } else if (discriminant == 0) {
        // Discriminant is zero
        root1 = root2 = -b / (2 * a);
        printf("Two equal real roots: %.2f and %.2f\n", root1
    } else {
        // Discriminant is negative
        root1 = root2 = -b / (2 * a);
        imaginary = sqrt(-discriminant) / (2 * a);
        printf("Two distinct complex roots: %.2f + i%.2f and
    }

    return 0;
}

```

```
File          Line   Message
                     === Build file: "no target" in "no project" (compiler: unknown) ===
                     === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 1 second(s
```

```
Enter the values of a, b, c for the equation ax^2 + bx + c = 0: 4 -2 -10
Two distinct real roots: 1.85 and -1.35

Process returned 0 (0x0)   execution time : 16.698 s
Press any key to continue.
```

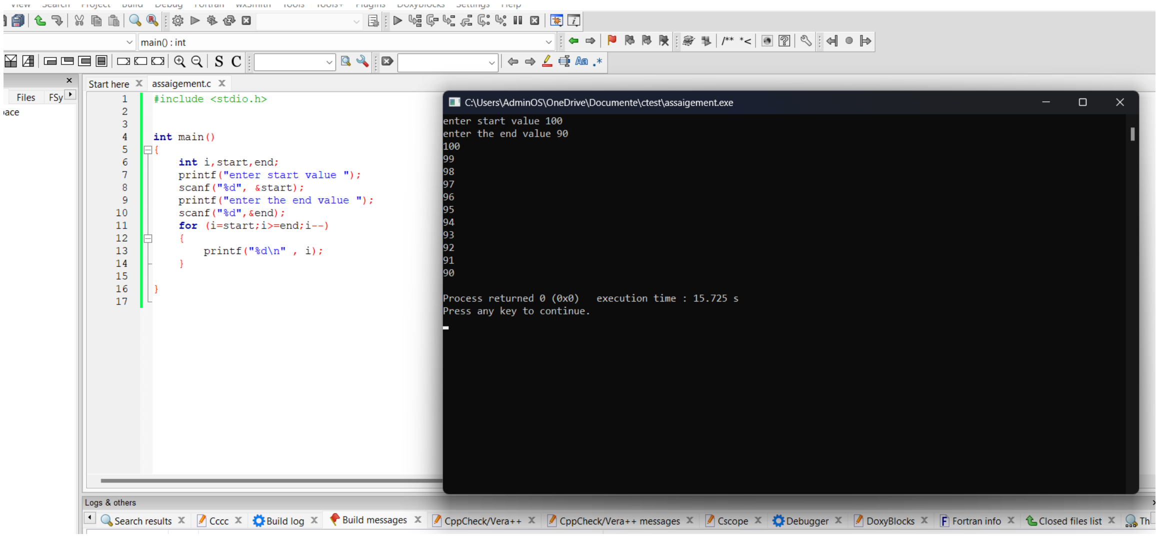

assaigement.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
Logs & others
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe

```c
#include <stdio.h>


int main() {
    float num1,num2,result=0.0f;
    char op;
    printf(" enter [number 1] [* / - + ] [number 2] \n  ");
    scanf("%f%c%f" , &num1,&op,&num2);
    switch(op)
    {
        case '+':
        result= num1+num2;
        break;
        case '-':
        result = num1-num2;
        break;
        case '/':
        result = num1/num2;
        break;
        case '*':
        result = num1*num2;
        break;

    }
    printf("%.2f  %c %.2f = %.2f" , num1,op,num2,result);
}

```

```
File          Line   Message
                     === Build file: "no target" in "no project" (compiler: unknown) ===
                     === Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s
```

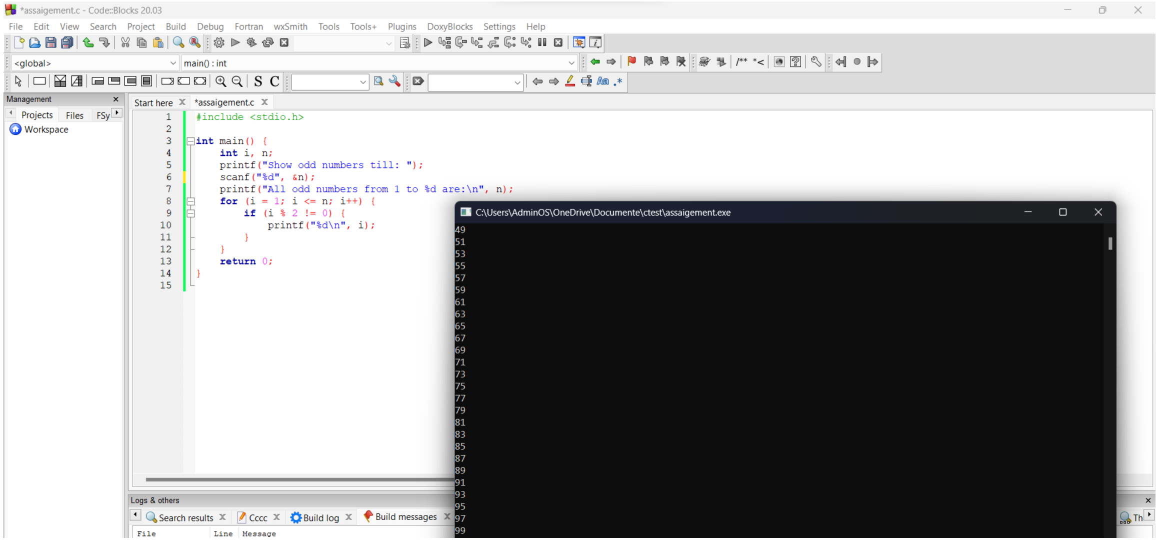
```
 enter [number 1] [* / - + ] [number 2]
  5*12
5.00  * 12.00 = 60.00
Process returned 0 (0x0)   execution time : 10.629 s
Press any key to continue.
```

4-Loops task



```c
#include <stdio.h>


int main()
{
    int i,start,end;
    printf("enter start value ");
    scanf("%d", &start);
    printf("enter the end value ");
    scanf("%d",&end);
    for (i=start;i>=end;i--)
    {
        printf("%d\n" , i);
    }

}
```

```
enter start value 100
enter the end value 90
100
99
98
97
96
95
94
93
92
91
90

Process returned 0 (0x0)   execution time : 15.725 s
Press any key to continue.
```


*assaigement.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
*assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Search results
Cccc
Build log
Build messages
File Line Message

```c
#include <stdio.h>

int main() {
    int i, n;
    printf("Show odd numbers till: ");
    scanf("%d", &n);
    printf("All odd numbers from 1 to %d are:\n", n);
    for (i = 1; i <= n; i++) {
        if (i % 2 != 0) {
            printf("%d\n", i);
        }
    }
    return 0;
}
```

```
49
51
53
55
57
59
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69
71
73
75
77
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81
83
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91
93
95
97
99
```
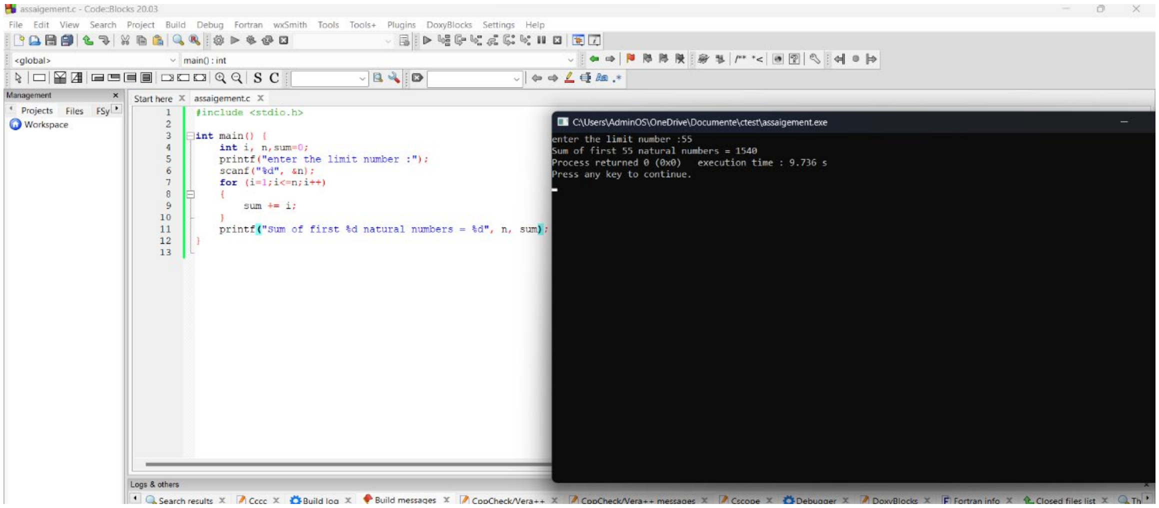
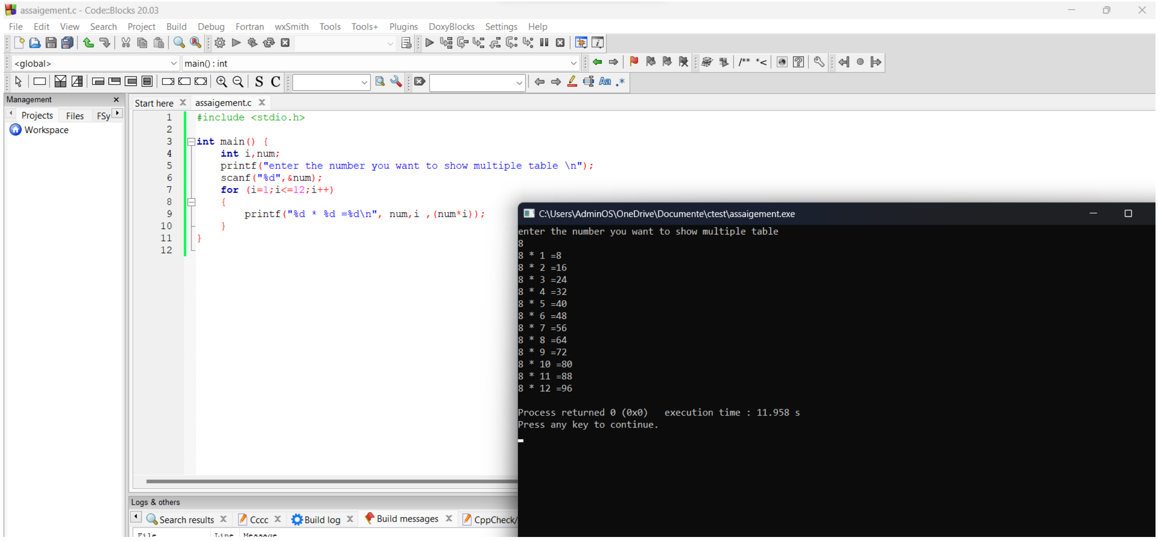



```c
#include <stdio.h>

int main() {
    int i, n,sum=0;
    printf("enter the limit number :");
    scanf("%d", &n);
    for (i=1;i<=n;i++)
    {
        sum += i;
    }
    printf("Sum of first %d natural numbers = %d", n, sum);
}
```

```
enter the limit number :55
Sum of first 55 natural numbers = 1540
Process returned 0 (0x0)   execution time : 9.736 s
Press any key to continue.
```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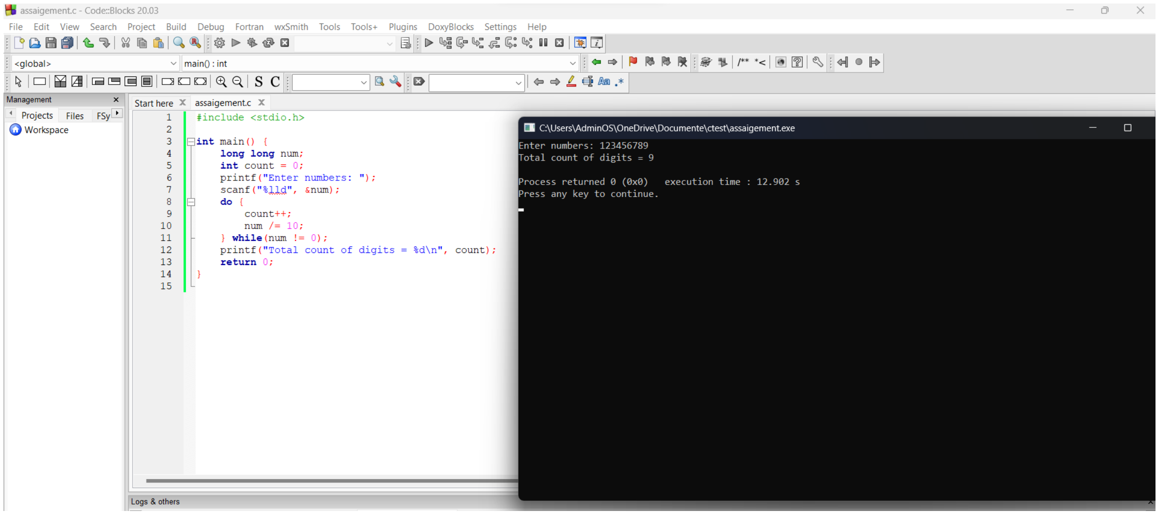
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Search results
Cccc
Build log
Build messages
CppCheck/

```c
#include <stdio.h>

int main() {
    int i,num;
    printf("enter the number you want to show multiple table \n");
    scanf("%d",&num);
    for (i=1;i<=12;i++)
    {
        printf("%d * %d =%d\n", num,i ,(num*i));
    }
}
```

```
enter the number you want to show multiple table
8
8 * 1 =8
8 * 2 =16
8 * 3 =24
8 * 4 =32
8 * 5 =40
8 * 6 =48
8 * 7 =56
8 * 8 =64
8 * 9 =72
8 * 10 =80
8 * 11 =88
8 * 12 =96

Process returned 0 (0x0)   execution time : 11.958 s
Press any key to continue.
```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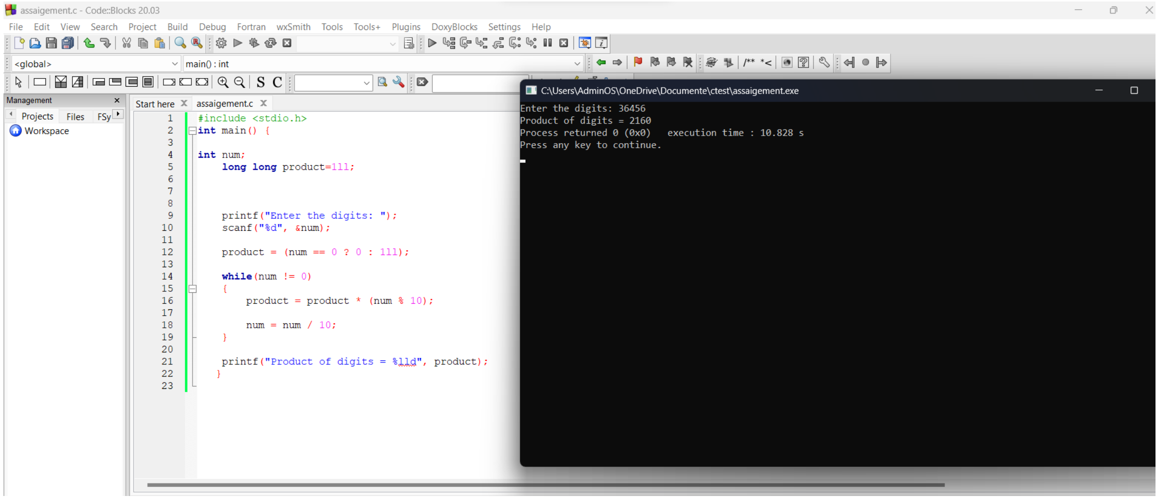
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others

```c
#include <stdio.h>

int main() {
    long long num;
    int count = 0;
    printf("Enter numbers: ");
    scanf("%lld", &num);
    do {
        count++;
        num /= 10;
    } while(num != 0);
    printf("Total count of digits = %d\n", count);
    return 0;
}
```

```
Enter numbers: 123456789
Total count of digits = 9

Process returned 0 (0x0)   execution time : 12.902 s
Press any key to continue.
```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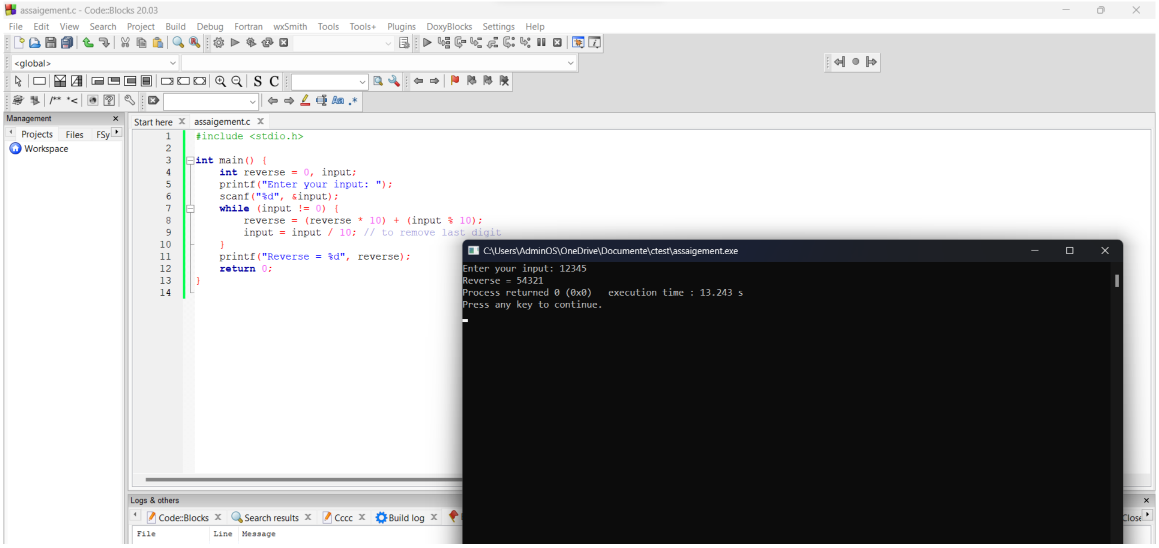
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe

```c
#include <stdio.h>
int main() {

int num;
    long long product=1ll;



    printf("Enter the digits: ");
    scanf("%d", &num);

    product = (num == 0 ? 0 : 1ll);

    while(num != 0)
    {
        product = product * (num % 10);

        num = num / 10;
    }

    printf("Product of digits = %lld", product);
   }
```

```
Enter the digits: 36456
Product of digits = 2160
Process returned 0 (0x0)   execution time : 10.828 s
Press any key to continue.
```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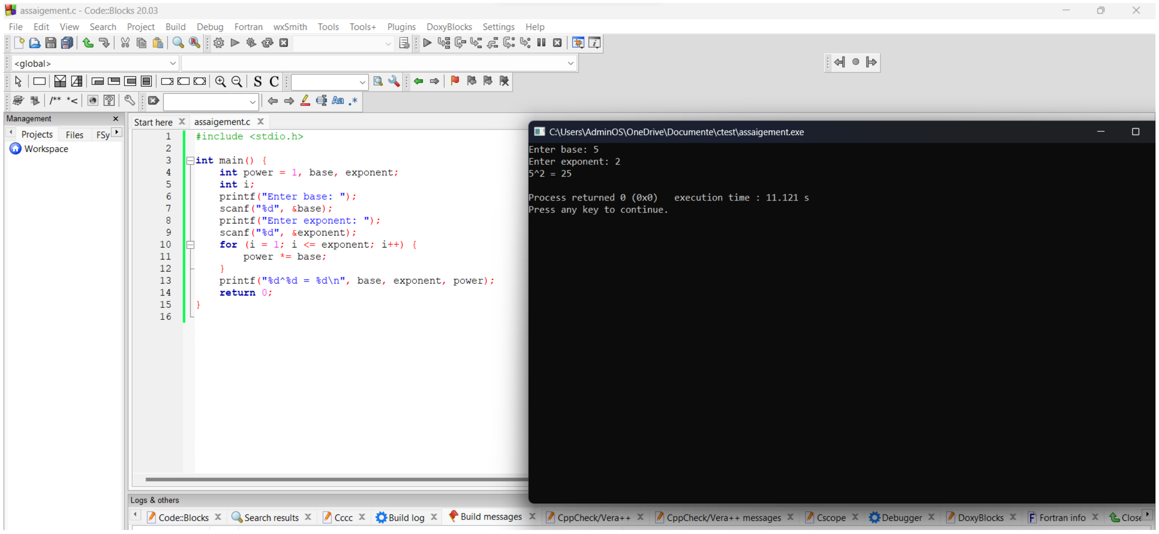
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks Search results Cccc Build log
File Line Message

```c
#include <stdio.h>

int main() {
    int reverse = 0, input;
    printf("Enter your input: ");
    scanf("%d", &input);
    while (input != 0) {
        reverse = (reverse * 10) + (input % 10);
        input = input / 10; // to remove last digit
    }
    printf("Reverse = %d", reverse);
    return 0;
}

```

```
Enter your input: 12345
Reverse = 54321
Process returned 0 (0x0)   execution time : 13.243 s
Press any key to continue.
```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File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Close

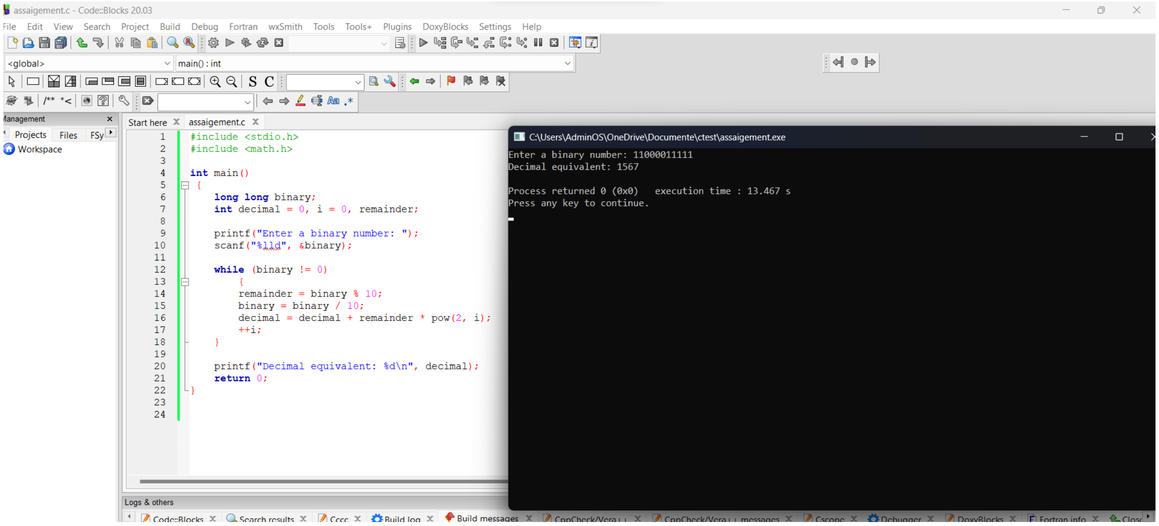
```c
#include <stdio.h>

int main() {
    int power = 1, base, exponent;
    int i;
    printf("Enter base: ");
    scanf("%d", &base);
    printf("Enter exponent: ");
    scanf("%d", &exponent);
    for (i = 1; i <= exponent; i++) {
        power *= base;
    }
    printf("%d^%d = %d\n", base, exponent, power);
    return 0;
}

```

```
Enter base: 5
Enter exponent: 2
5^2 = 25

Process returned 0 (0x0)   execution time : 11.121 s
Press any key to continue.
```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File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSy
Workspace
Start here
assaigement.c
C:\Users\AdminOS\OneDrive\Documente\ctest\assaigement.exe
Logs & others
Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Close

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

int main()
 {
    long long binary;
    int decimal = 0, i = 0, remainder;

    printf("Enter a binary number: ");
    scanf("%lld", &binary);

    while (binary != 0)
        {
        remainder = binary % 10;
        binary = binary / 10;
        decimal = decimal + remainder * pow(2, i);
        ++i;
    }

    printf("Decimal equivalent: %d\n", decimal);
    return 0;
}


```

```
Enter a binary number: 11000011111
Decimal equivalent: 1567

Process returned 0 (0x0)   execution time : 13.467 s
Press any key to continue.
```