

First assignment of c programing .

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Electrical power engineering.

Code 1:

```
#include <stdio.h>

#include <stdlib.h>

int main()
{
    float x,y,z ;

    printf("please enter the first number \n");

    scanf("%f",&x);

    printf("please enter the second number \n");

    scanf("%f",&y);

    z=x+y;

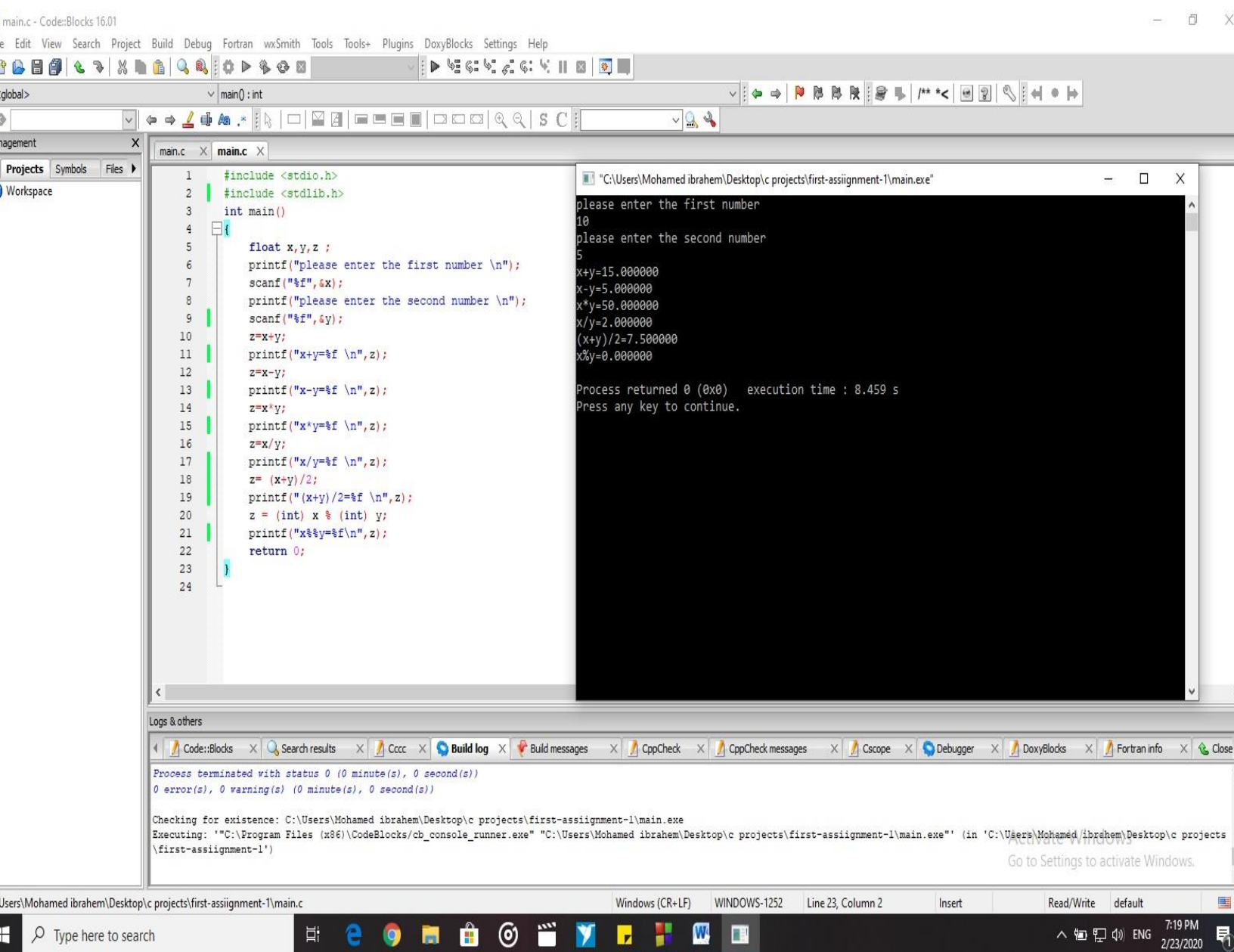
    printf("x+y=%f \n",z);

    z=x-y;

    printf("x-y=%f \n",z);

    z=x*y;
```

```
printf("x*y=%f \n",z);  
  
z=x/y;  
  
printf("x/y=%f \n",z);  
  
z= (x+y)/2;  
  
printf("(x+y)/2=%f \n",z);  
  
z = (int) x % (int) y;  
  
printf("x%%y=%f\n",z);  
  
return 0;  
  
}
```



Code 2:

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

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

```
int main()
```

```
{
```

```
    int x,y,z;
```

```
printf("enter first binary number \n");
scanf("%x",&x);
printf("enter second binary number \n");
scanf("%x",&y);
z=x&y;
printf(" x and y =%x\n",z);
z=x|y;
printf(" x or y = %x\n",z);
z=x^y;
printf(" x xor y = %x\n",z);
z=!x;
printf(" not x= %x\n",z);
z=!y;
printf(" not y = %x\n",z);
//-----
int f,h,j;
printf("enter first hexa number number \n");
scanf("%x",&f);
printf("enter second hexa number number \n");
scanf("%x",&h);
```

```
f=h&j;

printf("h and j = %x\n",f);

f=h | j;

printf("h or j = %x\n",f);

f=h^j;

printf("h xor j = %x\n",f);

f=!h;

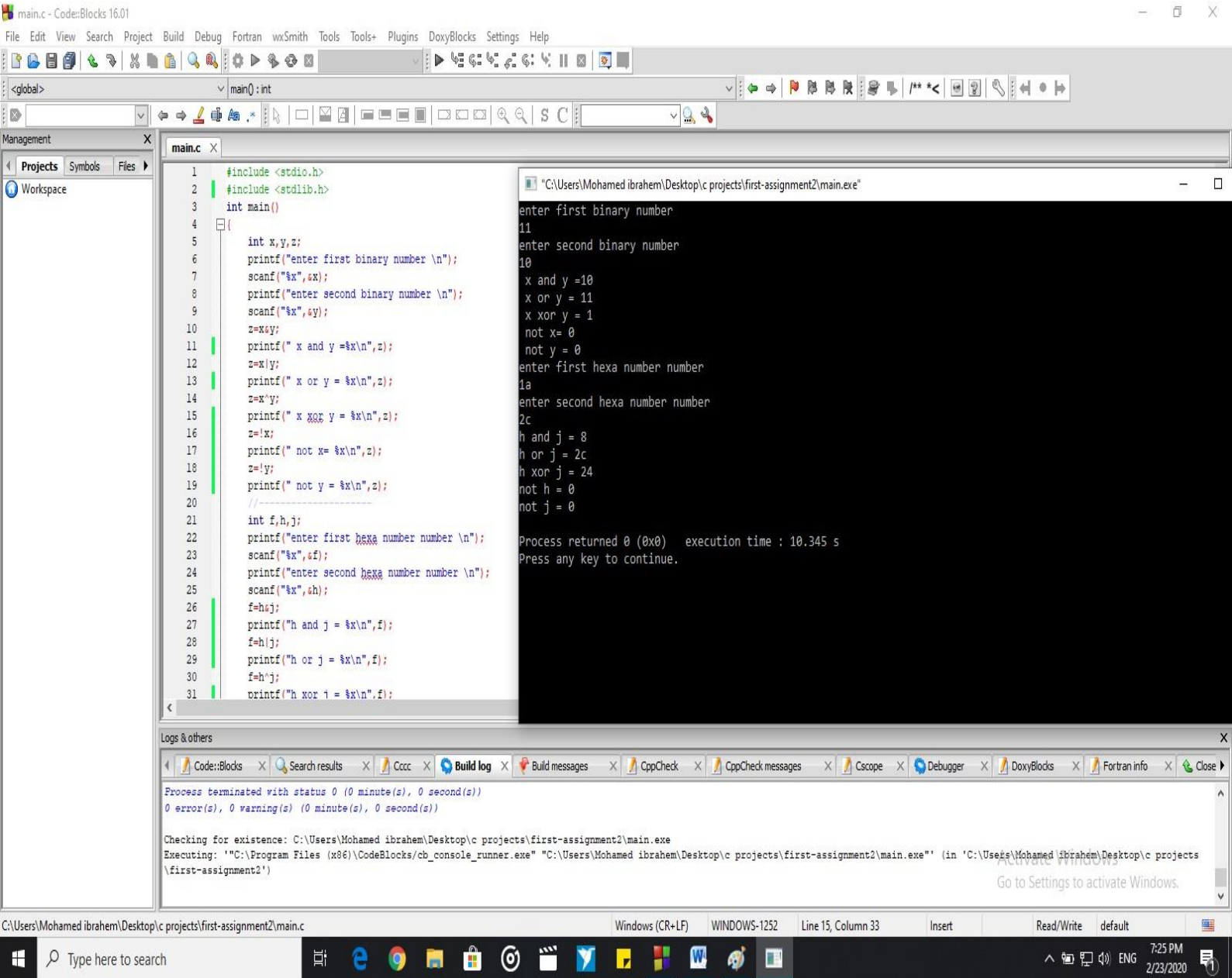
printf("not h = %x\n",f);

f=!j;

printf("not j = %x\n",f);

return 0;

}
```



Code 3:-

`#include <stdio.h>`

`#include <stdlib.h>`

`int main()`

`{`

`//circumstance == المحيط == c`

```
float d , l , w , m , area2 , area3 , c2 , c3 ;

float area1 , c1 ;

const float pi =3.14;

// circle area and circumference .

printf ("first of all we will get the area and the circumference of the
circle. \n");

printf("so please enter the circle diameter \n");

scanf("%f",&d);

area1= pi*d*(d/4);

printf("circle area =%f \n",area1);

c1= pi * d;

printf("circle circumference =%f \n",c1);


// Rectangular area and circumference .

printf("now we will get Rectangular area and circumference.\n");

printf("so please enter the Rectangular length \n");

scanf("%f",&l);

printf("now please enter the Rectangular width \n");

scanf("%f",&w);

area2=l*w;
```

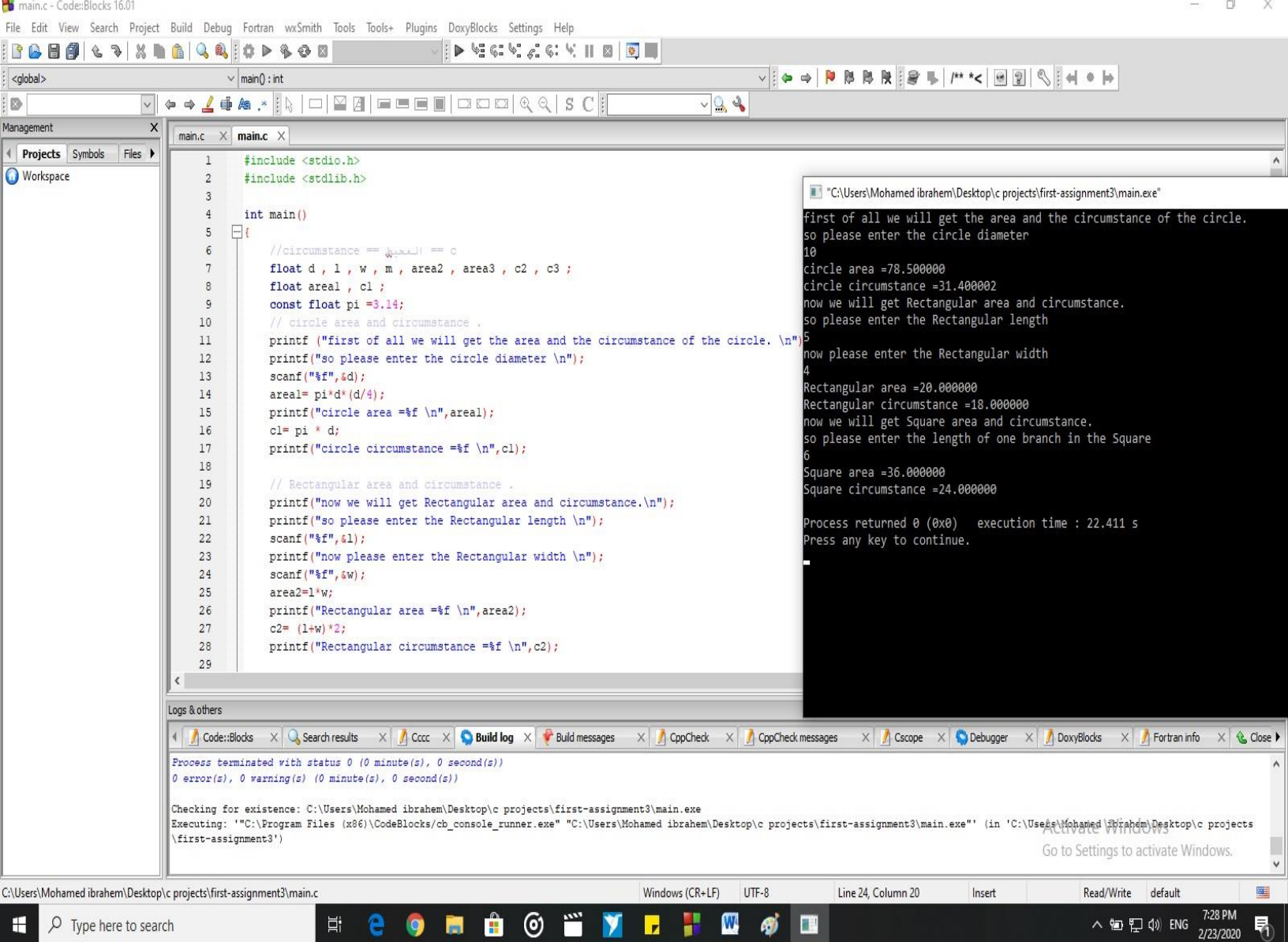
```
printf("Rectangular area =%f \n",area2);  
  
c2= (l+w)*2;  
  
printf("Rectangular circumstance =%f \n",c2);
```

```
// Square area and circumstance .
```

```
printf("now we will get Square area and circumstance.\n");  
printf("so please enter the length of one branch in the Square \n");  
scanf("%f",&m);  
  
area3=m*m;  
  
printf("Square area =%f \n",area3);  
  
c3= m*4;  
  
printf("Square circumstance =%f \n",c3);
```

```
return 0;
```

```
}
```

Code 4:-

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

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

```
int main()
```

```
{
```

```
float price , total_price , tax , total_tax;

const float tips = 0.03 ;
const float service = 0.04 ;

printf("please enter the meal price \n");
scanf("%f",&price);

printf("please enter the tax \n");
scanf("%f",&tax);

total_tax= tax * price *0.01 ;

printf("total_tax=%f \n",total_tax);

total_price= total_tax + price + tips*price + service * price ;

printf("total_price=%f\n",total_price);

return 0;

}
```

main.c - Code::Blocks 16.01

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<global>

Management

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     float price , total_price , tax , total_tax;
7
8     const float tips = 0.03 ;
9     const float service = 0.04 ;
10    printf("please enter the meal price \n");
11    scanf("%f",&price);
12    printf("please enter the tax \n");
13    scanf("%f",&tax);
14    total_tax= tax * price *0.01 ;
15    printf("total_tax=%f \n",total_tax);
16    total_price= total_tax + price + tips*price + service * price ;
17    printf("total_price=%f\n",total_price);
18
19    return 0;
20 }
21
```

"C:\Users\Mohamed ibrahem\Desktop\c projects\first-assignment-3\main.exe"

```
please enter the meal price
100
please enter the tax
15
total_tax=15.000000
total_price=122.000000

Process returned 0 (0x0)   execution time : 6.048 s
Press any key to continue.
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck CppCheck messages Cscope Debugger DoxyBlocks Fortran info Close

```
Process terminated with status 0 (0 minute(s), 0 second(s))
0 error(s), 0 warning(s) (0 minute(s), 0 second(s))

Checking for existence: C:\Users\Mohamed ibrahem\Desktop\c projects\first-assignment-3\main.exe
Executing: "C:\Program Files (x86)\CodeBlocks\cb_console_runner.exe" "C:\Users\Mohamed ibrahem\Desktop\c projects\first-assignment-3\main.exe" (in 'C:\Users\Mohamed ibrahem\Desktop\c projects\first-assignment-3')
```

Windows (CR+LF) WINDOWS-1252 Line 21, Column 1 Insert Read/Write default ENG 7:31 PM 2/23/2020