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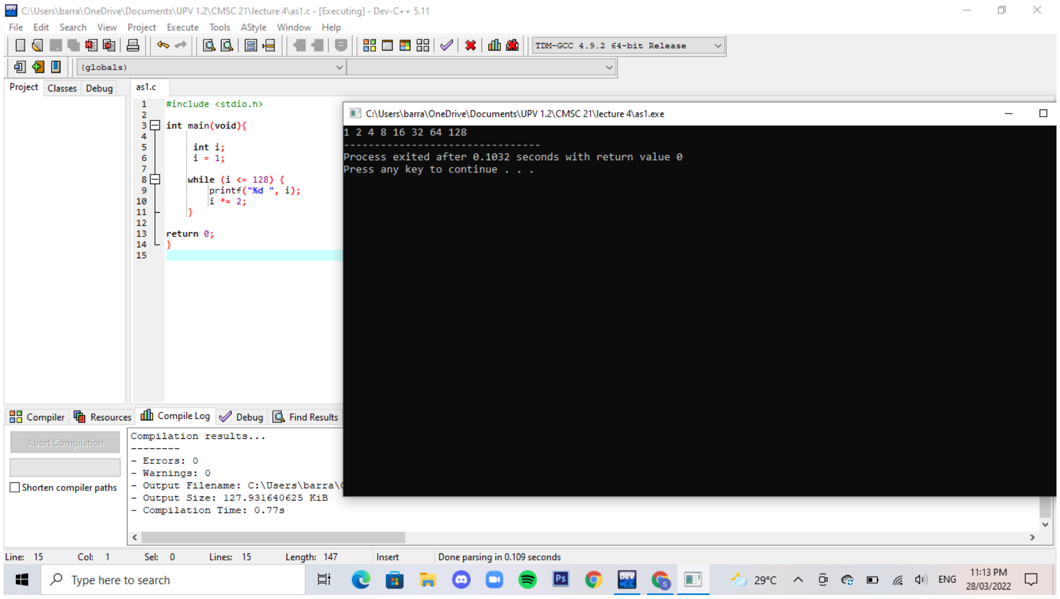
CMSC 21 (Lec) -1

Assignment #4

1.)


C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as1.c - [Executing] - 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
as1.c
C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as1.exe
Compiler Resources Compile Log Debug Find Results
Abort Compilation
Shorten compiler paths
Line: 15 Col: 1 Sel: 0 Lines: 15 Length: 147 Insert Done parsing in 0.109 seconds
Type here to search
29°C ENG 11:13 PM 28/03/2022

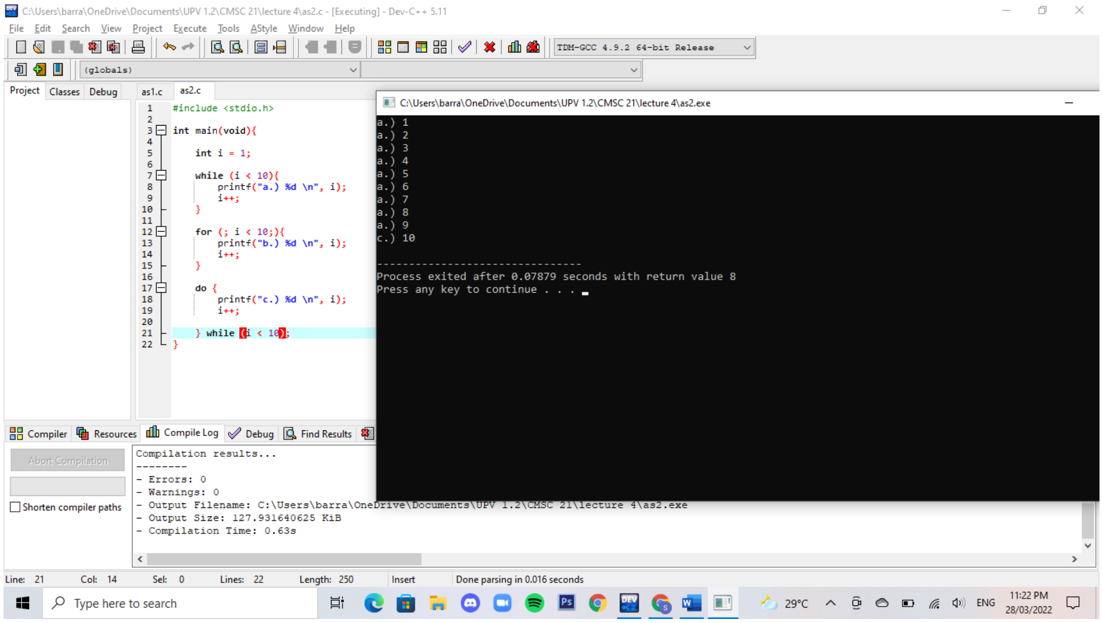
```c
#include <stdio.h>

int main(void){

    int i;
    i = 1;

   while (i <= 128) {
       printf("%d ", i);
       i *= 2;
   }

return 0;
}
```

```
1 2 4 8 16 32 64 128
--------------------------------
Process exited after 0.1032 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\barra\
- Output Size: 127.931640625 KiB
- Compilation Time: 0.77s
```

The output of the program is “1 2 4 8 16 32 64 128”

2.)


C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as2.c - [Executing] - 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
as1.c as2.c
C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as2.exe
Compiler Resources Compile Log Debug Find Results
Abort Compilation
Shorten compiler paths
Line: 21 Col: 14 Sel: 0 Lines: 22 Length: 250 Insert Done parsing in 0.016 seconds
Type here to search
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```c
#include <stdio.h>

int main(void){

    int i = 1;

    while (i < 10){
        printf("a.) %d \n", i);
        i++;
    }

    for (; i < 10;){
        printf("b.) %d \n", i);
        i++;
    }

    do {
        printf("c.) %d \n", i);
        i++;

    } while (i < 10);
}
```

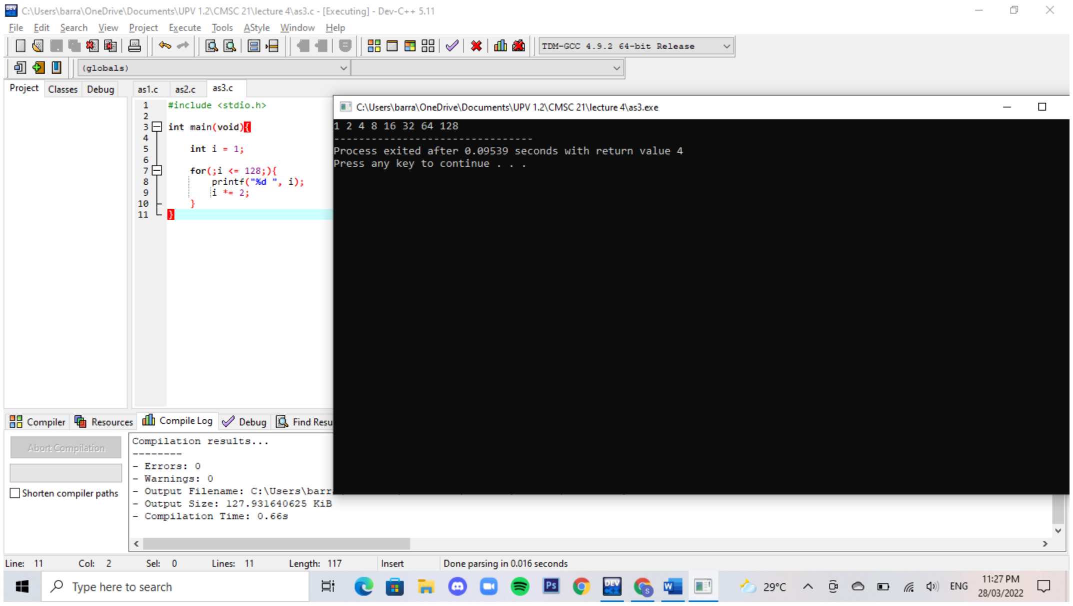
```
a.) 1
a.) 2
a.) 3
a.) 4
a.) 5
a.) 6
a.) 7
a.) 8
a.) 9
c.) 10

--------------------------------
Process exited after 0.07879 seconds with return value 8
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as2.exe
- Output Size: 127.931640625 KiB
- Compilation Time: 0.63s
```

Letter c (do-while loop) is not equivalent to the other 2 (while & for loops) since it is the only one who printed the number 10.

In the command prompt, you will not see outputs from letter b since letter a already did the task.

3.



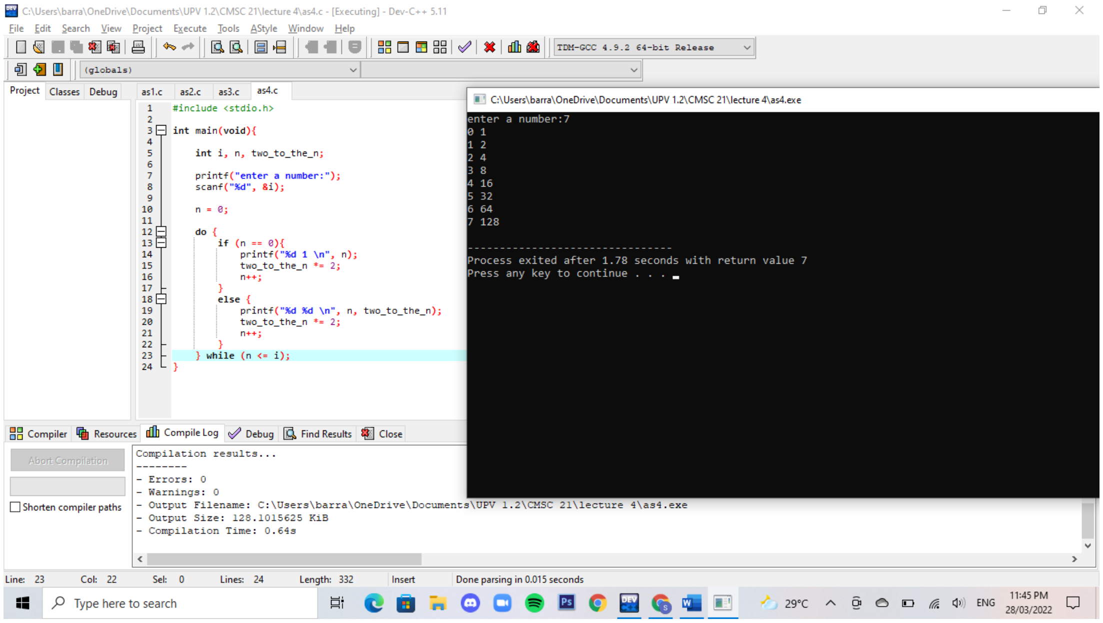
C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as3.c - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
as1.c as2.c as3.c
C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as3.exe
Compiler Resources Compile Log Debug Find Resu
Abort Compilation
Shorten compiler paths
Line: 11 Col: 2 Sel: 0 Lines: 11 Length: 117 Insert Done parsing in 0.016 seconds
Type here to search
29°C ENG 11:27 PM 28/03/2022

```c
#include <stdio.h>

int main(void){

    int i = 1;

    for(;i <= 128;){
        printf("%d ", i);
        i *= 2;
    }
}
```

```
1 2 4 8 16 32 64 128
--------------------------------
Process exited after 0.09539 seconds with return value 4
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\barr
- Output Size: 127.931640625 KiB
- Compilation Time: 0.66s
```

4.



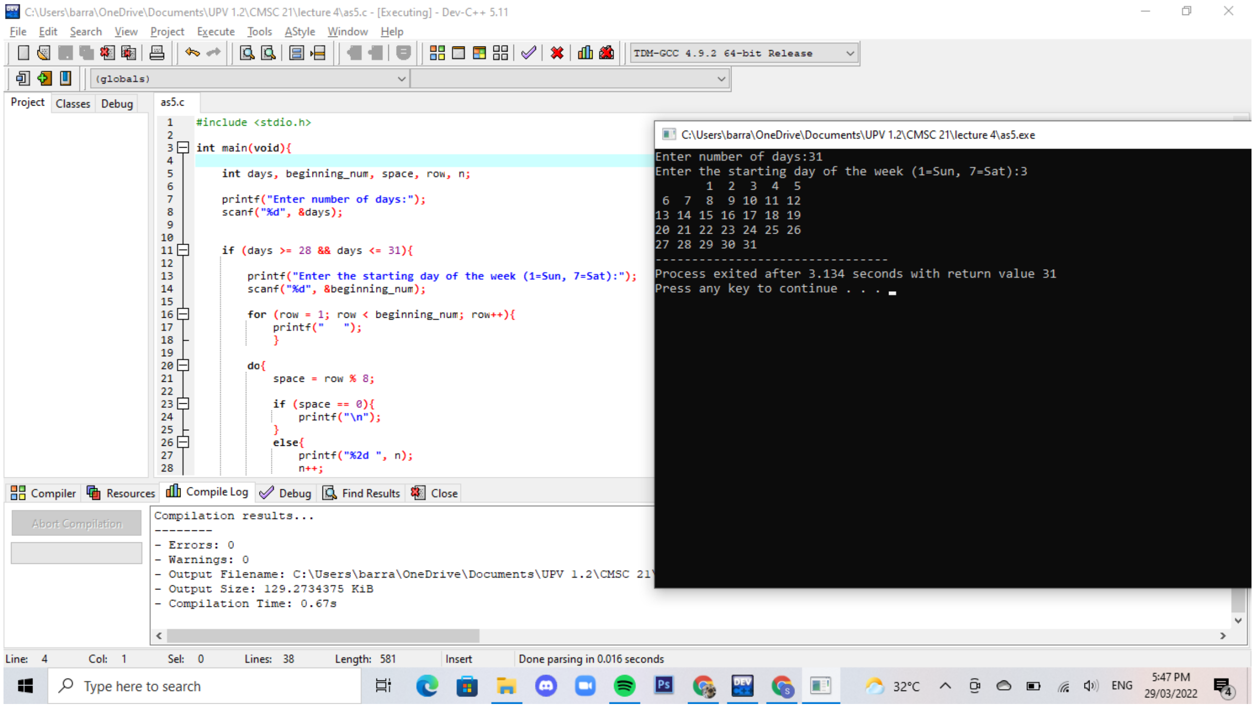
C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as4.c - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
as1.c as2.c as3.c as4.c
C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as4.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 23 Col: 22 Sel: 0 Lines: 24 Length: 332 Insert Done parsing in 0.015 seconds
Type here to search
29°C ENG 11:45 PM 28/03/2022

```c
#include <stdio.h>

int main(void){

    int i, n, two_to_the_n;

    printf("enter a number:");
    scanf("%d", &i);

    n = 0;

    do {
        if (n == 0){
            printf("%d 1 \n", n);
            two_to_the_n *= 2;
            n++;
        }
        else {
            printf("%d %d \n", n, two_to_the_n);
            two_to_the_n *= 2;
            n++;
        }
    } while (n <= i);
}
```

```
enter a number:7
0 1
1 2
2 4
3 8
4 16
5 32
6 64
7 128

--------------------------------
Process exited after 1.78 seconds with return value 7
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as4.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.64s
```

5.



C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as5.c - [Executing] - 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
as5.c

```c
#include <stdio.h>

int main(void){

    int days, beginning_num, space, row, n;

    printf("Enter number of days:");
    scanf("%d", &days);


    if (days >= 28 && days <= 31){

        printf("Enter the starting day of the week (1=Sun, 7=Sat):");
        scanf("%d", &beginning_num);

        for (row = 1; row < beginning_num; row++){
            printf("   ");
            }

        do{
            space = row % 8;

            if (space == 0){
                printf("\n");
            }
            else{
                printf("%2d ", n);
                n++;
```

C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\lecture 4\as5.exe

```
Enter number of days:31
Enter the starting day of the week (1=Sun, 7=Sat):3
       1  2  3  4  5
 6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
--------------------------------
Process exited after 3.134 seconds with return value 31
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\barra\OneDrive\Documents\UPV 1.2\CMSC 21\
- Output Size: 129.2734375 KiB
- Compilation Time: 0.67s
```

Line: 4 Col: 1 Sel: 0 Lines: 38 Length: 581 Insert Done parsing in 0.016 seconds
Type here to search
32°C
ENG
5:47 PM
29/03/2022