LECTURE 4 ASSIGNMENT

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```
// #1
1.)
         2
              #include <stdio.h>
         3
             int main (void)
         4
            □ {
         5
                  int i;
         6
                  i = 1;
                  while (i <= 128) {</pre>
         7
                      printf("%d ", i);
         8
                      i *= 2;
        9
       10
       11
              return 0;
       12
       13
                                                            X
             "C:\Users\bbmun\OneDrive\Documents\UPV ... —
            1 2 4 8 16 32 64 128
            Process returned 0 (0x0)
                                        execution time : 18.538 s
            Press any key to continue.
```

Output: 1 2 4 8 16 32 64 128

```
#include <stdio.h>
      int main (void) {
 3
 4
            int i;
 5
            i = 1;
 6
             while (i < 10) {
    printf("%d ", i);</pre>
 8
 9
                  i ++;
10
11
            for (i ; i < 10; i++) {
    printf("%d ", i);</pre>
12
13
14
15
16
                  printf("%d ", i);
17
18
19
                  i ++;
             } while (i < 10);</pre>
20
             return 0;
21
        "C:\Users\bbmun\OneDrive\Documents\UPV BSC...
       1 2 3 4 5 6 7 8 9 10
       Process returned 0 (0x0) execution time : 1.903 s
Press any key to continue.
```

```
2
       #include <stdio.h>
 3
      int main (void) {
 4
           int i;
 5
           i = 1;
 6
           while (i < 10) {
    printf("%d ", i);</pre>
 7
 8
 9
                i ++;
10
11
           for (i ; i < 10; i++) {
    printf("%d ", i);</pre>
12
13
14
15
            return 0;
16
17
        "C:\Users\bbmun\OneDrive\Documents\UP...
                                                            1 2 3 4 5 6 7 8 9
       Process returned 0 (0x0) execution time : 1.879 s
       Press any key to continue.
```

Answer: Statement C is not equivalent to the other two since it still returns number 10 while the first two statements return numbers 1 to 9 only

3.) #include <stdio.h> 3 int main(void) 4 5 int i; for (i = 1; i <= 128;) {
 printf("%d ", i);</pre> 6 7 8 i *= 2; 9 10 return 0; 11 12 "C:\Users\bbmun\OneDrive\Documents\UPV BS... — X 1 2 4 8 16 32 64 128 Process returned 0 (0x0) execution time : 1.883 s Press any key to continue.

Output: 1 2 4 8 16 32 64 128

```
4.)
           #include <stdio.h>
           int main ()
       4
             5
       6
       8
       9
       10
                                        ----");
       11
       12
              for (i; i <= exp; i ++) {</pre>
                 prod = n;
       13
       14
                 printf ("\n %d %d", i, prod);
       15
       16
       17
       18
       19
           "C:\Users\bbmun\OneDrive\Documents\UPV BSCS-1 (2nd S... —
           Please enter the value of exponent: 5
           TABLE OF POWERS OF TWO
           n 2 to the n
            -----
               16
            -----
           Process returned 0 (0x0) execution time : 2.403 s
           Press any key to continue.
```

5.)

```
// #5
#include<stdio.h>
                                                                                             "C:\Users\bbmun\OneDrive\Documents\UPV BSCS-1 (2nd Sem)\C...
                                                                                                                                                                                                                              ×
3 4 5 6 7 8 9 10 1112 114 115 6 117 119 20 1 22 2 2 4 2 5 6 2 7 8 9 9 40 41 1 4 4 5 6 6 7 4 8 9 5 5 5 5 7 8 5 5 5 7 8 5 9
       int main()(
int start, days, i;;
char reply;
                                                                                           Enter number of days in month: 31
                                                                                           Enter the starting day of the week: 5
                                                                                          1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
                printf("Enter number of days in month: ");
scanf("%d", &days);
                if(days >= 32 || days <= 0 || days <= 27)
                   printf("\nInvalid input\\n");
printf("\nInvalid input\\n");
printf("\n\niwhers 20 to 21 are only accepted!");
printf("\n\niwould you like to continue?\n");
printf("Rlease enter Y if yes, and N if no.\n\n");
scanf("bs", &reply);
                                                                                           18 19 20 21 22 23 24
                                                                                           25 26 27 28 29 30 31
                      if(reply=='N' || reply=='n')
                                                                                           Would you like to continue?
Please enter Y if yes, and N if no.
                       break;
                  printf("Enter the starting day of the week: ");
scanf("%d", isvart);
for(i = 1; i < start; i++) {
    printf(" ");
}</pre>
                                                                                           Enter number of days in month: 27
                  for(i = 1; i <= days; i++) {
    printf("$2a", i);
    if((i + start - 1) *7 ==0) {
        printf("\n");
    }
}</pre>
                                                                                           Invalid input!
                                                                                           Numbers 28 to 31 are only accepted!
                                                                                           Would you like to continue?
                printf("\n\mWould you like to continue?\n");
printf("Please enter Y if yes, and N if no.\n\n");
scanf("es", &reply);
                                                                                           Please enter Y if yes, and N if no.
                  if(reply=='N' || reply== 'n')
                        break;
                                                                                           Thank you!
                                                                                           Process returned 0 (0x0) execution time : 20.900 s
           while(reply="Y' || reply="'y');
                                                                                           Press any key to continue.
           printf("\nThank you!");
           return 0;
```