

1. 1 2 4 8 16 32 64 128

```
C Language > C week4_1.c > main(void)
1  #include <stdio.h>
2
3  int main(void)
4  {
5      int i;
6      i = 1;
7      while (i <= 128)
8      {
9          printf("%d ", i);
10         i *= 2;
11     }
12     return 0;
13 }
```

OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell
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1 2 4 8 16 32 64 128
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> |

2. Based on the output of the three loops the do while loop has a different output among the rest.

```
1  #include <stdio.h>
2  int main(void)
3  {
4      //Output: 0 1 2 3 4 5 6 7 8 9
5      int i;
6      i = 0;
7      while (i < 10)
8      {
9          printf("%d ", i);
10         i++;
11     }
12
13     printf("\n");
14
15     //Output: 0 1 2 3 4 5 6 7 8 9
16     for (i = 0; i < 10; i++)
17         printf("%d ", i);
18     printf("\n");
19
20     //output: 10
21     i = 0;
22     do
23     {
24         i++;
25     }
26     while (i < 10);
27     printf("%d ", i);
28
29
30
```

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```
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language\" ; if ($?) { gcc week4_2c.c -o week4_2c } ; if ($?) { .\week4_2c }
0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9
10
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>
```

3.

```
C Language > C Week7_assignment > main(void)
1  #include <stdio.h>
2
3  int main(void)
4  {
5      int i;
6
7      for(i = 1; i <= 128; i *= 2)
8      {
9          printf("%d ", i);
10
11      }
12      return 0;
13  }
```

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1 2 4 8 16 32 64 128
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>

4.

```
C Language > C\week4_ass4.c > main(void)
1  #include <stdio.h>
2
3  int main(void)
4  {
5      int n;
6      int i = 1;
7      printf("Enter n term: ");
8      scanf("%d", &n);
9      while (n >= 0)
10     {
11
12         printf("%d ", i);
13         i *= 2;
14         n --;
15     }
16     return 0;
17 }
```

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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> cd "c:\Users\admin\Desktop\UP Cla
Enter n term: 10
1 2 4 8 16 32 64 128 256 512 1024
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>

5.

```
C Language > C week4_ass5.c > main()
1  #include<stdio.h>
2  int main()
3  {
4      int i, days, start_day;
5      printf("Enter number of days in month: ");
6      scanf("%d",&days);
7      printf("Enter the starting day of the week (1=Sun, 7=Sat): ");
8      scanf("%d",&start_day);
9
10     if(days < 28 || days > 31)
11     {
12         printf("Invalid input please try again from the start.");
13         return 0;
14     }
15     else
16         for(i=1;i<start_day;i++)
17             printf(" ");
18
19         for(i = 1;i <= days;i++)
20         {
21             printf("%3d",i);
22             if((start_day + i - 1) % 7==0)
23             {
24                 printf("\n");
25             }
26         }
27     return 0;
28 }
```

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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C La
Enter number of days in month: 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
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> |