Judelle Clareese E. Gaza CMSC 21 -1

1.

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

```
OUTPUT:

PS C:\Users\ACER> cd "c
    .\as1 }
1 2 4 8 16 32 64 128

1 2 4 8 16 32 64 128
```

2.

```
Input i: 1
a) while
1 2 3 4 5 6 7 8 9
b) for
1 2 3 4 5 6 7 8 9
c) do while
1 2 3 4 5 6 7 8 9

ii.

Input i: 11
a) while
b) for
c) do while
11
```

The while and for loops only execute when the given condition (i < 10) is true, on the other hand the do – while loop will still execute its body even if the given condition is not satisfied. Statement c is the outlier of the 3.

```
#include <stdio.h>

int main(void) {
    int i;

/* equivalent for loop of number 1
    initiate i as 1,
    the condition i < = 128,
    and the after execution or the updation of i after executing body */

for (i = 1 ;i <= 128; i*=2){
    printf("%d ", i);
}

return 0;
</pre>
```

PRINTS THE SAME OUTPUT AS 1:

1 2 4 8 16 32 64 128

```
PS C:\Users\ACER> cd "c
1 2 4 8 16 32 64 128
PS C:\Users\ACER\OneDri
```

4.

```
OUTPUT:
```

```
## sinclude <stdio.hb

## sinclude <stdio.hb
```

OUTPUT:

```
How many days in a Month?
Input [28-31]: 31
Which day of the week to start? [1] Sunday [2] Monday [3] Tuesday [4] Wednesday [5] Thursday [6] Friday [7] Saturday
Input [1-7]: 1
=== YOUR CALENDAR ===
Su Mo Tu We Th Fr Sa
 8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
How many days in a Month?
Input [28-31]: 28
Which day of the week to start? [1] Sunday [2] Monday [3] Tuesday [4] Wednesday [5] Thursday [6] Friday [7] Saturday
Input [1-7]: 4
=== YOUR CALENDAR ===
Su Mo Tu We Th Fr Sa
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28
```

```
How many days in a Month?
Input [28-31]: -1
Invalid Input. Please Try Again. How many days in a Month?
Input [28-31]: 0
Invalid Input. Please Try Again. How many days in a Month?
Input [28-31]: 27
Invalid Input. Please Try Again. How many days in a Month?
Input [28-31]: 32
Invalid Input. Please Try Again. How many days in a Month?
Input [28-31]: 30

Which day of the week to start? [1] Sunday [2] Monday [3] Tuesday [4] Wednesday [5] Thursday [6] Friday [7] Saturday Input [1-7]: 8
Invalid Input. Please Try Again.
Which day of the week to start? [1] Sunday [2] Monday [3] Tuesday [4] Wednesday [5] Thursday [6] Friday [7] Saturday Input [1-7]: |
```