

1.

The screenshot shows a Visual Studio Code editor with a file named `as1.c`. The code is as follows:

```
1 //Lecture 2 - 1
2
3 #include <stdio.h>
4
5 int main(void){
6     int d1, d2; //d1 represents 1st digit while d2 represents the 2nd digit
7
8     printf("Enter a two-digit number:");
9     scanf("%d%d", &d1,&d2);
10
11     printf("Reverse: %d%d", d2,d1); //print the 2nd digit first then followed by the first digit so that the output is the reverse
12 }
13
```

The terminal output shows the execution of the program:

```
Windows PowerShell
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PS C:\Users\Varj\Documents\CMSC 21\Codes> cd "c:\Users\Varj\Documents\CMSC 21 LEC\CMSC21\Lecture2\Assignments\" ; if ($?) { gcc as1.c -o as1 } ; if ($?) { .\as1 }
Enter a two-digit number:18
Reverse: 81
PS C:\Users\Varj\Documents\CMSC 21 LEC\CMSC21\Lecture2\Assignments>
```

2.

The screenshot shows a Visual Studio Code editor with a file named `as2.c`. The code is as follows:

```
1 //Lecture 2 - 2
2
3 #include <stdio.h>
4
5 int main(void){
6     int d1, d2, d3; //d1 represents 1st digit, d2 represents the 2nd digit, & d3 the 3rd digit
7
8     printf("Enter a three-digit number:");
9     scanf("%d%d%d", &d1,&d2,&d3);
10
11     printf("Reverse: %d%d%d", d3,d2,d1); //print the 3rd digit first then followed by the 2nd digit then 3rd digit so that the output is the reverse
12 }
13
```

The terminal output shows the execution of the program:

```
Windows PowerShell
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PS C:\Users\Varj\Documents\CMSC 21\Codes> cd "c:\Users\Varj\Documents\CMSC 21 LEC\CMSC21\Lecture2\Assignments\" ; if ($?) { gcc as2.c -o as2 } ; if ($?) { .\as2 }
Enter a three-digit number:143
Reverse: 341
PS C:\Users\Varj\Documents\CMSC 21 LEC\CMSC21\Lecture2\Assignments>
```

3. a. 1
b. 0
c. 1
8 8 9
d. 1
2 1 1