

Q.2 WAP to print the multiplication table of the number entered by the user. It should be in the correct formatting. $\text{Num} * i = \text{Num}$

#include < stdio.h >

```
int main () {
    int num, i;
    printf ("Enter a number: ");
    scanf ("%d", &num);
    puts ("Multiplication Table of %d\n", num);
    for (i = 1; i <= 10; i++) {
        printf ("%d * %d = %d\n", num, i, num * i);
    }
    return 0;
}
```

A screenshot of a Mac desktop showing a terminal window. The terminal window has tabs at the top, with the active tab labeled "main.c". The window includes standard OS X controls like "Run" and "Clear".

The code in "main.c" is:

```
1 #include <stdio.h>
2
3 int main() {
4     int num, choice;
5     int positive = 0, negative = 0, zero = 0;
6
7     do {
8         printf("Enter a number: ");
9         scanf("%d", &num);
10
11        if (num > 0) {
12            positive++;
13        }
14        else if (num < 0) {
15            negative++;
16        }
17        else {
18            zero++;
19        }
20
21        printf("Do you want to enter another number? (1 = Yes, 0 =
22             No): ");
23        scanf("%d", &choice);
24    } while (choice == 1);
25 }
```

The terminal output shows the execution of the program:

```
Enter a number: 5
Do you want to enter another number? (1 = Yes, 0 = No): 1
Enter a number: -2
Do you want to enter another number? (1 = Yes, 0 = No): 1
Enter a number: 0
Do you want to enter another number? (1 = Yes, 0 = No): 1
Enter a number: 8
Do you want to enter another number? (1 = Yes, 0 = No): 0

Count of positive numbers = 2
Count of negative numbers = 1
Count of zeroes = 1

== Code Execution Successful ==
```

Below the terminal window is the Dock, which contains icons for various Mac applications such as Mail, Calendar, iBooks, iMovie, iPhoto, Safari, Stocks, iTunes, App Store, iMessage, and others.