8/20/23, 8:34 PM midterm_code1.c

unit2\midterm_code1.c

```
#include <stdio.h>
 2
    // c function to take a number and sum all digits?
 3
   int sum_digits(int n);
 5
   void main(void)
 7
 8
        int num;
        printf("enter a number: ");
 9
10
        scanf("%d", &num);
11
        printf("\nsum of %d digits = %d", num, sum_digits(num));
12
13
    int sum_digits(int n)
14
15
16
        static int add;
17
        int rem = 0;
        if (n != 0)
18
19
20
            rem = n \% 10;
21
            add += rem;
22
23
            sum_digits(n / 10);
24
25
        else
26
            return 0;
27
        return add;
    }
28
29
```