

2. Write a C program to print Sum of digits using function

Sol:-

```
#include <stdio.h>
int Sum of digits (int n);
int main() {
    int number, Sum;
    Print("enter any number to find the Sum of its
          digits: ");
    scanf("%d", &number);
    Sum = Sum of digits (number);
    printf("Sum of digits of %d = %d\n", num, Sum);
    return 0;
}

int Sum of digits (int n) {
    int Sum = 0;
    int remainder;
    while (n != 0) {
        remainder = n % 10;
        Sum += remainder;
        n /= 10;
    }
    return Sum;
}
```

Output:-

Enter any number to find Sum of its digits: 234
Sum of digits of 234 = 9.

2. Write a C program to reverse given number using function.

Ans:-

```
#include <stdio.h>

int reverse number (int num);

int main () {
    int number, reversed = 0;
    Printf ("enter a number to reverse; ");
    Scanf ("%d", & number);
    reversed = reverse number (number);
    Printf ("reversed number: %d/n", reversed);
    return 0;
}

int reverse number (int num) {
    int reverse = 0, remainder;
    while (num != 0) {
        remainder = num % 10;
        reverse = reverse * 10 + remainder;
        num /= 10;
    }
    return reverse;
}
```

Output:-

Enter a number to reverse : 262

Reversed number : 262,

3. Write a C program to swap two numbers without using third variable.

Ans:-

```
#include <stdio.h>
```

```
int a, b;
```

```
printf("Enter two numbers (a and b); ");
```

```
scanf("%d %d", &a, &b);
```

```
printf("Before Swap: a = %d, b = %d\n", a, b);
```

```
a = a + b;
```

```
b = a - b;
```

```
a = a - b;
```

```
printf("after Swap: a = %d, b = %d\n", a, b);
```

```
return 0;
```

```
}
```

Output:-

Enter two numbers (a and b) :- 10 20

Before Swap: a = 10, b = 20

After Swap: a = 20, b = 10