

Ques:- 1. Write a C program to print Sum of digits using function.

```

#include <stdio.h>
int sum_of_digits(int n);
int main() {
    int number, sum;
    printf("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 : 263

Reversed number : 362.

3. Write a C program 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