

① write a function to print sum of digits.
input: 234 , output: 9.

sol:- #include <stdio.h>

```
int sum of Digits (int n) {
```

```
    int sum = 0;
```

```
    while (n > 0) {
```

```
        sum + = n % 10;
```

```
        n = n / 10;
```

```
    }
```

```
    return sum;
```

```
int main() {
```

```
    int num;
```

```
    printf("Enter a number:");
```

```
    scanf ("%d", & num);
```

```
    printf("Sum of digits = %d\n", sum of  
        Digits(num));
```

```
    return 0;
```

② write a c Program to reverse Given number using functions. Input: 123 , output: 321

sol:- #include <stdio.h>

// function to reverse a number

```
int reverse Number (int n) {
```

```
    int rev = 0, rem;
```

```
    while (n > 0) {
```

```
        rem = n % 10; // get last digit
```

```
        rev = rev * 10 + rem; // append digit
```

```
        n = n / 10; // remove last digit
```

```
    }
```

```
    return rev;
```

```
}
```



```

int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    printf("Reversed number: %d\n", reverse number
        (num));
    return 0;
}

```

③ Swap two numbers with using third variable.

input a=10, b=20, output a=20, b=10;

Ans:- #include <stdio.h>

```

void swap(int a, int b) {

```

```

    int temp;

```

```

    temp = a;

```

```

    a = b;

```

```

    b = temp;

```

```

    printf("After swapping: a=%d, b=%d\n", a, b);

```

```

int main() {

```

```

    int a=10, b=20;

```

```

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

```

```

    swap(a, b);

```

```

    return 0;
}

```