

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;
```

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```

int main() {
    int num;
    printf("Enter a number: ");
    scanf("%d", &num);
    printf("Reversed number: %.d\n", reverseNumber
        (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) + (temp = b) */

```

```

    temp = a; /* (temp = a) + (temp = b) */

```

```

    a = b; /* (temp = a) + (temp = 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;
}

```