

1) Write a C program to check palindrome

```
#include<stdio.h>
int main() {
    int num, original, reversed = 0, digit;
    printf("Enter a number :");
    scanf("%d", &num);
    original = num;
    while (num > 0) {
        digit = num % 10;
        reversed = reversed + digit;
        num = num / 10;
    }
    if (original == reversed) {
        printf("%d is palindrome
number\n", original);
    } else {
        printf("%d is not a palindrome
number\n", original);
    }
    return 0;
}
```

2) Write a C program to print sum of digits.

```
#include <stdio.h>

int main() {
    int num, sum = 0, digit;
    printf ("Enter a number");
    scanf ("%d", &num);

    while (num > 0) {
        digit = num % 10;
        sum += digit;
        num /= 10;
    }

    printf ("sum of digits = %d\n", sum);
    return 0;
}
```

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

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

```
int main() {
```

```
    int a,b;
```

```
    printf("Enter two numbers:");
```

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

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

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

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

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

```
    printf("After swapping :\n");
```

```
    printf("a = %d \n", a);
```

```
    printf("b = %d \n", b);
```

```
    return 0;
```

```
}
```