

Assignment :-

26/11/25

1) Write a program to print sum of digits using function.

Ans:

```
#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", number, 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.

2. Write

```
#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;
}
```

at pt : enter a number to reverse : 262

Reversed number: 262.

3. Write a C program swap two number withare using third variable.

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

```
int main () {
```

```
    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 number (a and b) : 10 20

Before swap : a = 10, b = 20

After swap : a = 20, b = 10