

Q. Write a C program to print sum of digits sum of digits using function.

Ans

```
#include <stdio.h>
int sumofdigits(int n);
int main()
{
    int number, sum;
    printf("Enter any Number to find the sum of its digits");
    scanf("%d", &number);
    printf("sum of digits (%d)", number);
    printf("sum of digits of %d = %d/n", number, sum);
}
```

return 0;

```
int sumofdigits(int n)
{
    int sum = 0;
    remainder = n % 10;
    sum + remainder;
    n / 10;
}
```

return sum;

OUT PUT

Enter any number to find sum of its digits of 234
sum of digits of 234 = 9.

① write a program to reverse given number for
Ans

```
#include <stdio.h>
int reverseNumber(int num);
int main() {
    int number, reversed = 0;
    printf("Enter a number to reverse: ");
    scanf("%d", &number);
    reversed = reverseNumber(number);
    printf("reversed number: %d\n", reversed);
    return 0;
}
```

② write
using
Ans:

```
int reverseNumber(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: 262.
Reversed number: 262.

⑤ write a programme swap two numbers without using third variable.

```
Ans: #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 numbers (a and b): - 10 20
Before swap: a=10, b=20
After swap : a=20, b=10