1) Write a 'C' program to print the sum of digits of a number using recursive function.

A.
```c
#include<stdio.h>
int sum of digits (int num) {
    int sum = 0, digit;
    while (num > 0) {
        digit = num % 10;
        Sum + = digit;
        num = num / 10;
    }
    return sum;
}

int main() {
    int number;
    printf ("Enter any number : ");
    Scanf ("%d", & number);
    printf ("Sum of digits = %d \n",
        Sum of digits (number));
    return 0;
}
```

Output:—

Enter any number : 456
Sum of digits = 15

2) write a 'c' program to print reverse of a number using function (recursive)

A.

```c
#include<stdio.h>
int reverse = 0;
void reverseNumber (int num) {
    if (num == 0)
        return;

    reverse = reverse * 10 + (num % 10);
    reverseNumber (num/10);
}

int main() {
    int number;
    printf ("Enter a number : ");
    scanf ("%d", & number);
    reverseNumber (number);

    printf ("Reverse of %d is : %d", number, reverse);

    return 0;
}
```

Output :-

Enter a number : 12345

Reverse of 12345 is : 54321

3. Write `C` program to print Swap of two numbers without using third variable.

A.
```c
#include<stdio.h>
int main(){
    int a,b;
    printf(" Enter two numbers : ");
    scanf("%d %d", &a, &b);

    a = a+b;
    b = a-b;
    a = a-b;
    printf("After Swapping : a = %d, b = %d", a,b);

    return 0;
}
```

Output:-

Enter two numbers : 5, 10

After Swapping : a = 10; b 25