

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

```
A. #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 : 50 10

After Swapping : a = 10 ; b = 25

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

```
#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

26/Nov/25

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

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

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

Output:-

```
Enter any number: 456
Sum of digits = 15
```

2) write a  
a number

```
A. #include <stdio.h>
int reverse(int num);
void
```

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