

## Practical no: 8

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**Objective:** Write a program in C to reverse string using stack

**Program Codes:** Following is the code of this problems in C:-

### 1. Practical8.c

```
#include <stdio.h>
#define MAX 25
char word[MAX], stack[MAX];
int tos, choice=1;

void reverse(){
    int i= 0;
    printf("\nEnter word: ");
    fgets(word, MAX, stdin);
    while(word[i] != '\0'){
        stack[tos+1] = word[i];
        i++; tos++;
    }
    i=0;
    while(tos != -1){
        word[i] = stack[tos];
        i++; tos--;
    }
    word[i] = '\0';
    printf("Reverse: %s", word);
}

int main(){
    while(choice){
        printf("\n\nDo you want to reverse(1 or 0): ");
        scanf("%d", &choice);
        if(choice){
            getchar();
            reverse();
        }else{
            return 0;
        }
    }
}
```

**Output:** Following is the output of the program:-

```
Do you want to reverse(1 or 0): 1
```

```
Enter word: pandey
```

```
Reverse:
```

```
yednap
```

```
Do you want to reverse(1 or 0): 1
```

```
Enter word: Divyanshu yadav
```

```
Reverse:
```

```
vaday uhsnayviD
```

1.