

Practical no. 5 A : Program to demonstrate Character Count Framing Technique

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Program

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

int main(){
    char data[50], stuff[50], dstuff[50];
    int i,j,fsize,no_of_frames, tframe, dsize, s;

    printf("enter data:\n");
    scanf("%s",data);

    dsize=strlen(data);

    printf("enter fsize:\n");
    scanf("%d",&fsize);

    s=fsize;

    tframe=fsize-1;

    no_of_frames=(dsize/tframe)+1;

    j=0;

    for(i=0;i<(dsize+no_of_frames);i++){

        if(i%fsize==0){
            if((dsize-j)<fsize){
                fsize=dsize-j+1;
            }

            stuff[j]=(char)(48+fsize);
            fsize=s;
        }
        else{
```

```

        stuff[i]=data[j];
        j++;
    }

}

stuff[dsize+no_of_frames]='\0';

printf("Stuffed data is: %s\n",stuff);


// destuffing

j=0;

for(i=0;i<(dsize+no_of_frames);i++){
    if(i%fsz!=0){
        dstuff[j]=stuff[i];
        j++;
    }
}

printf("\n\ndestuffed data is: %s\n",dstuff);

return 0;
}

```

Output:

```
enter data:
Hamburg
enter fsize:
4
Stuffed data is: 4Ham4bur2g

destuffed data is: Hamburg
```

```
enter data:
London
enter fsize:
3
Stuffed data is: 3Lo3nd3on1

destuffed data is: London
```