

Exp 8

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

```
#include<stdlib.h>
```

```
#define MAXSIZE 100
```

```
int main()
```

```
{
```

```
    char *p,*q;
```

```
    char temp;
```

```
    char in[MAXSIZE];
```

```
    char stuff[MAXSIZE];
```

```
    char destuff[MAXSIZE];
```

```
    int count=0;
```

```
    printf("enter the input character string (0's & 1's only):\n");
```

```
    scanf("%s",in);
```

```
    p=in;
```

```
    q=stuff;
```

```
    while(*p!='\0')
```

```
    {
```

```
        if(*p=='0')
```

```
        {
```

```
            *q=*p;
```

```
            q++;
```

```
            p++;
```

```
        }
```

```
    else
```

```
{  
  
while(*p=='1' && count!=5)  
  
{  
  
count++;  
  
*q=*p;  
  
q++;  
  
p++;  
  
}  
  
  
if(count==5)  
  
{  
  
*q='0';  
  
q++;  
  
}  
  
count=0;  
  
}  
  
}  
  
*q='\0';  
  
printf("\nthe stuffed character string is");  
  
printf("\n%s",stuff);  
  
  
  
p=stuff;  
  
q=destuff;  
  
while(*p!='\0')  
  
{  
  
if(*p=='0')  
  
{  
  
*q=*p;  
  
q++;
```

```
p++;  
  
}  
  
else  
  
{  
  
while(*p=='1' && count!=5)  
  
{  
  
count++;  
  
*q=*p;  
  
q++;  
  
p++;  
  
}  
  
if(count==5)  
  
{  
  
p++;  
  
}  
  
count=0;  
  
}  
  
}  
  
*q='\0';  
  
printf("\nthe destuffed character string is");  
  
printf("\n%s\n",destuff);  
  
return 0;  
  
}
```