

2. Program to concatenate two strings and find the length of resultant string without using built in function.

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

```
int main()
```

```
{
```

```
    char str1[50], str2[50], str3[100];
```

```
    int i=0, j=0, length;
```

```
    printf("Enter the first string : \n");
```

```
    gets(str1);
```

```
    while (str1[i] != '\0')
```

```
    {
```

```
        str3[j] = str1[i];
```

```
        i++;
```

```
        j++;
```

```
    }
```

```
    i=0;
```

```
    printf("Enter the second string : \n");
```

```
    gets(str2);
```

```
    while (str2[i] != '\0')
```

```
    {
```

```
        str3[j] = str2[i];
```

```
        i++;
```

```
        j++;
```

```
    }
```

```
    str3[j] = '\0';
```

```
    printf("The concatenating string is : \n");
```

```
    puts(str3);
```

```
    j=0;
```

```
    while (str3[j] != '\0')
```

```
    {
```

```
        j++;
```

}

length = j;

printf ("length of the string = %d", length);

return 0;

{