

PRACTICAL : 8 - CTSD

1

Write a C program that uses functions to perform the following operation;

1. To insert a sub-string into a given main string from a given position.

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

```
void main()
```

```
{
```

```
    char a[10];
    char b[10];
    char c[10];
    int p=0,r=0,i=0;
    int t=0;
    int x,g,s,n,o;
    clrscr();
```

```
    puts("Enter First String:");
    gets(a);
    puts("Enter Second String:");
    gets(b);
    printf("Enter the position where the item has to be inserted: ");
    scanf("%d",&p);
    r = strlen(a);
    n = strlen(b);
    i=0;
```

```
    while(i <= r)
    {
        c[i]=a[i];
        i++;
    }
```

```
    s = n+r;
    o = p+n;
```

```
    for(i=p;i<s;i++)
    {
```

```
        x = c[i];
        if(t<n)
        {
```

```

        a[i] = b[t];
        t=t+1;
    }
    a[o]=x;
    o=o+1;
}

printf("%s", a);
getch();
}

```

OUTPUT:

Enter First String : parul

Enter Second String: university

Enter the position where the item has to be inserted: 3

Parul university.

2. To delete n Characters from a given position in a given string.

```

#include <stdio.h>
#include <conio.h>
// prototype of function
void del_str(char [],int, int);
main(){
    int n,p;
    char str[30];
    printf("
Enter the String:");
    gets(str);
    fflush(stdin);
    printf("
Enter the position from where the characters are to be deleted:");
    scanf("%d",&p);
    printf("
Enter Number of characters to be deleted:");
    scanf("%d",&n);
    del_str(str,p,n);
}
//function call
void del_str(char str[],int p, int n){

```

	<pre> int i,j; for(i=0,j=0;str[i]!='\0';i++,j++){ if(i==(p-1)){ i=i+n; } str[j]=str[i]; } str[j]='\0'; puts(" The string after deletion of characters:"); puts(str); } </pre> <p><u>OUTPUT:</u></p> <p>Enter the String:Tutorials Point C programming</p> <p>Enter the position from where the characters are to be deleted:10</p> <p>Enter Number of characters to be deleted:6</p> <p>The string after deletion of characters:</p> <p>Tutorials C programming</p>
2	<p>Write a C program to determine if the given string is a palindrome or not.</p> <pre> #include <stdio.h> #include <string.h> int main() { char str[] = { "abbba" }; int l = 0; int h = strlen(str) - 1; while (h > l) { if (str[l++] != str[h--]) { printf("%s is not a palindrome\n", str); return 0; } } printf("%s is a palindrome\n", str); return 0; } </pre>

	<u>OUTPUT:</u>
--	-----------------------

	abbba is a palindrome
--	-----------------------