**ASSIGNMENT NO:102**

**Input a string and reverse it using recursion:**

***Program code:***

#include <stdio.h>

#include <string.h>

void swap(char \*x, char \*y)

{

char temp = \*x;

\*x = \*y;

\*y = temp;

}

void reverse(char str[], int l, int h)

{

if (l < h)

{

swap(&str[l], &str[h]);

reverse(str, l + 1, h - 1);

}

}

int main()

{

char s[20];

int l;

printf("Enter a string: ");

gets(s);

l=strlen(s);

reverse(s,0,l-1);

puts(s);

return 0;

}

***Output:***

Enter a string: Akash Patra

artaP hsakA