

Reg No: 22BCE2436

PAGE NO.

DSL Model Implementation

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

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

```
void addApplicationHeader(char * message)
```

```
{
```

```
char temp[100] = "AH";
```

```
Strcat(temp, message);
```

```
strcpy(message, temp);
```

```
}
```

```
void addPresentationHeader(char * message)
```

```
{
```

```
char temp[100] = "PH";
```

```
Strcat(temp, message);
```

```
strcpy(message, temp);
```

```
}
```

```
void addSessionHeader(char * message)
```

```
{
```

```
char temp[100] = "SH";
```

```
Strcat(temp, message);
```

```
strcpy(message, temp);
```

```
}
```

```
void addTransportHeader(char * message)
```

```
{
```

```
char temp[100] = "TU";
```

```
Strcat(temp, message);
```

```
strcpy(message, temp);
```

```
}
```

void addNetworkHeader (char * message)

{

char temp[100] = "NH";

strcat (temp, message);

strcpy (message, temp);

void addDataLinkHeader (char * message)

{

char temp[100] = "DL";

strcat (temp, message);

strcpy (message, temp);

void sendToPhysicalLayer (char * message)

{

printf ("Message entered into physical layer
and transmission (%c) is M") ;

}

int main ()

{

char inputString[100];

printf ("Enter the String : ");

gets (inputString, 100, stdin);

inputString [strchr (inputString, '\n') - 1] = 0;

printf ("TRANSMITTER :\n");

addApplicationHeader (inputString);

printf ("Application Layer : %s\n", inputString);

addPresentationHeader (inputString);

printf ("Presentation Layer : %s\n", inputString);

add Session header (inputString);
 printf ("Session layer: %s\n", inputString);

add Transport Header (inputString);
 printf ("Transport layer: %s\n", inputString)

add Network Header (inputString);
 printf ("Network layer: %s\n", inputString);

add Datalink Header (inputString);
 printf ("Datalink layer: %s\n", inputString);

Send to Physical layer (inputString);
 printf ("Physical layer: %s\n", inputString);

printf ("Receiver: %s");
 printf ("Message entered into physical layer: %s",

printf ("Datalink layer: %s\n", inputString);
 memmove (inputString, inputString + 2, strlen
 (inputString) - 1);

printf ("Network layer: %s\n", inputString);
 memmove (inputString, inputString + 2, strlen
 (inputString) - 1);

printf ("Transport layer: %s\n", inputString);
 memmove (inputString, inputString + 2, strlen (inputString) - 1);

printf ("Session layer: %s\n", inputString);
 memmove (inputString, inputString + 2, strlen (inputString) - 1);

printf ("Presentation layer: %s\n", inputString);



remove (inputString, inputString + 2, &len (inputString
-1));

printf ("Application layer : %s\n", inputString);

return 0;

}