

Pseudocode

PROGRAM-1

```
void insertc()
{
    Struct node *newnode;
    newnode = (Struct node*) malloc (size of (Struct node));
    printf ("Enter USN");
    scanf ("%s", newnode → USN );
    printf ("Enter name");
    scanf ("%s", newnode → name);
    newnode → next = NULL;
    newnode → prev = NULL;
    if (head == NULL)
    {
        head = newnode;
    }
    else
    {
        newnode → next = head;
        head → prev = newnode;
        head = newnode;
    }
}

void delete-USNC()
{
    Struct node *temp;
```

```

int delete-USN
if (head == NULL)
{
    printf ("Empty list of USN's");
    return;
}
printf ("Enter the USN to be deleted");
scanf ("%s", delete-USN);
temp = head;
while (temp → USN != delete-USN)
{
    temp = temp → next;
    if (temp == NULL)
    {
        printf ("Entered USN not found");
        break;
    }
}
if (temp == head)
{
    head = head → next;
}
else if (temp → next == NULL)
{
    temp = temp → prev;
    temp → next = NULL;
}
else
{
    temp → prev → next = temp → next;
    temp → next → prev = temp → prev;
}
}

```