

Q. Create Singly link list and count and print the node of list using C program.

```
void main()  
{
```

```
    char ch;
```

```
    struct link  
    {
```

```
        int info;
```

```
        struct link *pnext;
```

```
    };
```

```
    typedef struct link *NODE;
```

```
    NODE *ptr, *start, *new;
```

```
    ptr = NULL;
```

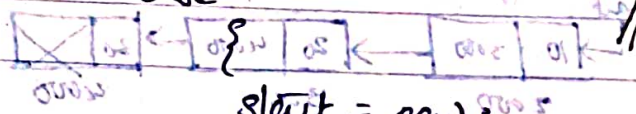
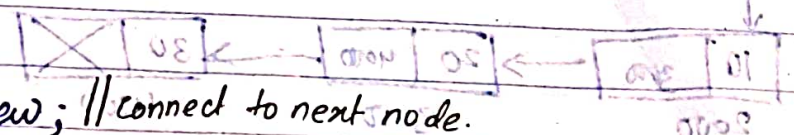
```
    count = 0;
```

```

do
{
    (NODE *) // typecasting
    new = (NODE) malloc (size of (NODE)) // malloc creates node and gives it to new.
    printf ("Enter Data");
    scanf ("%d", &new->info);
    if (ptr != NULL)
    {
        ptr->next = new; // connected to next node.
        ptr = ptr->next;
    }
    else
    {
        start = new;
        ptr = new;
    }

    printf ("Do you want to continue... Y/N ");
    scanf ("%c", &ch);
} while (ch == 'Y');

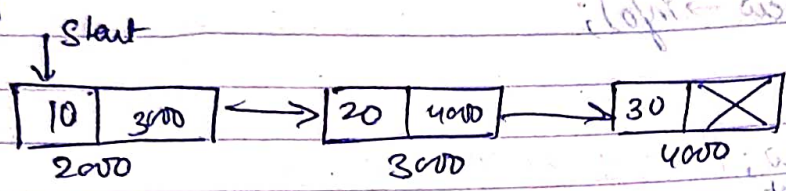
// traversing and counting after linked list created.
ptr->next = NULL;
printf ("The linked list is");
ptr->start;
while (ptr != NULL)
{
    printf ("%d", ptr->info);
    count++;
}
    
```



```

    } ptr = ptr -> next;
    }
    printf("In the total node is %d", count);
    }

```



(address) 2000  
 ("start" ptr) 1000  
 (data) 10  
 (next) 3000  
 (data) 20  
 (next) 4000  
 (data) 30  
 (next) null