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**Subject: Data Structures** 

# Practical - 8

Aim: Program to create linked list of cell phone with three attributes as data and print it.

#### **Program:**

```
#include <stdio.h>
#include <stdlib.h>
struct node
{
    char *company;
    float screenSize;
    int price;
    struct node *next;
};
struct node *AddNode(struct node *head, char *cpName, float size, int price)
    struct node *temp;
    temp = malloc(sizeof(struct node));
    temp->company = cpName;
    temp->screenSize = size;
    temp->price = price;
    if (head == NULL)
    {
        head = temp;
    }
    else
    {
        struct node *index = head;
        while (index->next != NULL)
        {
            index = index->next;
        index->next = temp;
        temp->next = NULL;
    }
    return head;
```

```
}
void printList(struct node *temp)
{
   printf("Printing Linked List\n");
   printf("-----\n");
   while (temp != NULL)
       printf("Company : %s\n", temp->company);
       printf("Screen Size : %.1f inch\n", temp->screenSize);
       printf("Price : Rs. %d\n\n", temp->price);
       temp = temp->next;
   }
}
int main()
   struct node *head = NULL;
   head = AddNode(head, "Xiaomi", 5.6, 9999);
   head = AddNode(head, "Apple", 6.1, 99999);
   head = AddNode(head, "Samsung", 6.7, 49999);
   printList(head);
}
```

# **Output:**

### **Printing Linked List**

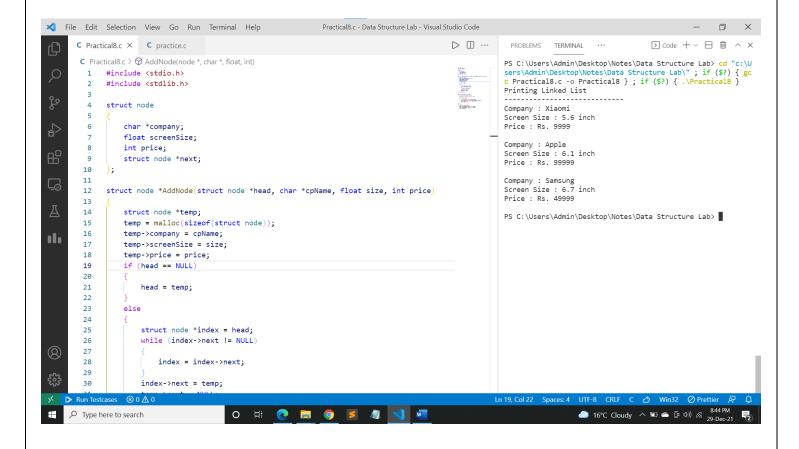
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Company : Xiaomi Screen Size : 5.6 inch Price : Rs. 9999

Company : Apple Screen Size : 6.1 inch Price : Rs. 99999

Company : Samsung Screen Size : 6.7 inch Price : Rs. 49999

#### **Screenshot:**



**Conclusion:** I have successfully completed practical 8.