

Experiment-10 (Dynamic Memory Allocations)

1) WAP to create a simple linked list in C using pointer and structure

⇒ #include <stdio.h>  
#include <stdlib.h>

```
struct Node {  
    int data;  
    struct Node * next;  
};
```

```
int main() {
```

```
    struct Node * head = (struct Node *) malloc (Size of (struct  
                                                Node));
```

```
    struct Node * second = (struct Node *) malloc (Size of (struct  
                                                Node));
```

```
    struct Node * third = (struct Node *) malloc (Size of (struct  
                                                Node));
```

head → data = 10;

second → data = 20;

third → data = 30;

head → next = second;

second → next = third;

third → next = Null;

Remarks:

Teacher's Signature

```
struct Node * temp = head;
```

```
printf ("Linked List : ");  
while (temp != Null) {  
    printf ("%d →", temp → data);  
    temp = temp → next;
```

```
}
```

```
printf ("Null\n");  
return 0;
```

```
}
```

