WEEK 4

1. Program to create Linked List and display the contents of Linked List

Program:

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

struct node
{
int data;
struct node *link;
};

int main()
{

struct node *head= malloc(sizeof(struct node));
head->data = 45;
head->link= NULL;

struct node *current = malloc(sizeof(struct node));
current->data= 55;
current->link=NULL;
head->link=current;

current = malloc(sizeof(struct node));
current->data= 3;
current->link=NULL;
head->link->link=current;

print_data(head);

}

void print_data(struct node *head)
{
if(head==NULL)
printf("linked list is empty");
struct node*ptr=NULL;
ptr = head;

while(ptr!=NULL)
{
printf("%d\n", ptr->data);
ptr= ptr->link;
}
}
```

Output:

```
45
55
3

Process returned 0 (0x0)   execution time : 0.000 s
Press any key to continue.
```