DAY-8

Implementation of Double Linked List:

Code:

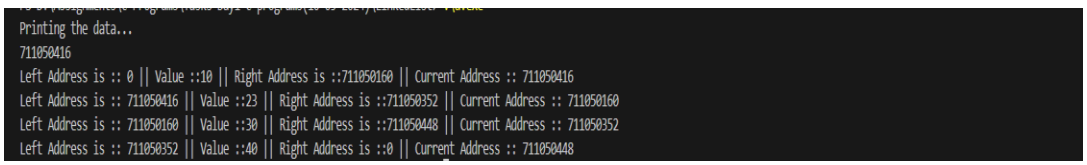
```
#include <stdio.h>
#include <stdlib.h>

struct Node {
    int data;
    struct Node *left;
    struct Node *right;
};

struct Node *head;
void create(int data){
    struct Node * nn=(struct Node *)malloc(sizeof(struct Node));
    struct Node *h=head;
    nn->data=data;
    nn->left=NULL;
    nn->right=NULL;
    if(h==NULL){
        head=nn;
        return ;
    }
    while(h->right!=NULL){
        h=h->right;
    }
    h->right=nn;
```

```
    nn->left=h;
}
void display(){
    struct Node *h=head;
    printf("%u\n",h);
    while(h!=NULL){
        printf("Left Address is :: %u || Value ::%d || Right Address is ::%u || Current Address :: %u\n",h->left,h->data,h->right,h);
        h=h->right;
    }
}
int main(){
    create(10);
    create(23);
    create(30);
    create(40);
    printf("Printing the data...\n");
    display();
}
```

Output:



2.Write a program to print the size of all data types?

Code:

```
#include <stdio.h>
#include <conio.h>
```

```
void main()
{
   printf ("No. of Bytes occupied by int is %d \n", sizeof(int));
   printf ("No. of Bytes occupied by float is %d \n", sizeof(float));
   printf ("No. of Bytes occupied by double is %d \n", sizeof(double));
   printf ("No. of Bytes occupied by char is %d \n", sizeof(char));
   getch();
}
```

Output: