TECHNO INDIA UNIVERSITY

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Batch: BCS2B

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Subject: Object Oriented Programming

Question: Write a program to manipulate linked list supporting node operation as follow:

1. a.node=node+6; //create a new node with new information 6
2. b.node=node-2; //delete a node having information 2

Answer:

```
#include

<iostream> using

namespace std;

struct node

{

 int data;

 struct node *next;

} * head;

class LinkedList

{

public:

 LinkedList
 ()

 {

 head = NULL;

 }
```

```
struct node *operator+(int n)
{
struct node *temp = new
node; temp->data = n;
temp->next =
head; return temp;
}
struct node *operator-(int n)
{
if (head->data == n)
{
struct node *temp1 = new node;
temp1 = head->next;
head->next =
NULL; delete
head;
return temp1;
}
else
return head;
}
```

```
 void operator=(struct node *a)
 {
 head = a;
 }
};
int main()
{
 LinkedList a;
 int d;
 for (int i = 1; i <= 3; i++)
 {
 cout << "Enter the element no : " << i << " " << endl;
 cin >> d;
 a = a + d;
}
 cout << head->data << " " << head->next->data << " " << head->next->next->data <<
 endl; a = a - d;
 cout << "Elements after deletion : " << endl;
```

```
 cout << head->data << " " << head->next->data << " " << head->next->next->data << endl;

}
```

OUTPUT