Assignment Day 3 | 26th December 2020

Question-1:

Write a function “insert_any()” for inserting a node at any given position of the linked list. Assume position starts at 0.

Code:

```
#include <iostream>
using namespace std;
int main()
{
   class Nodes
   {
// we make the variables public
      public:
      int Data;
      Nodes * next;
//from here we write the insert function
      void insert_any(Nodes* previous_node,int new_Data)
   {
      if(previous_node==NULL)
      {
         cout<<"Invalid Structure, try again";
         return;
      }
      Nodes* x=new Nodes();
      x->Data=new_Data;
      x->next=previous_node->next;
      previous_node->next=x;
   }
   }; }
```

Question-2:

Write a function “delete_beg()” for deleting a node from the beginning of the linked list.

Code:

```
#include <iostream>
using namespace std;
class Nodes
{
        int Data;
        class Nodes* next;
};
//from here we write the delete at the beginning function
Nodes* delete_beg(struct Nodes* head)
{
   if (head == NULL)
         return NULL;
   Nodes* temp = head;
   head = head->next;

   delete temp;

   return head;
}
```

Question-3:

Write a function “delete_end()” for deleting a node from the end of the linked list.

Code:

```
#include <iostream>
using namespace std;
class Nodes
{
        int Data;
        class Nodes* next;
//from here we write the delete at the end function
   Nodes* delete_end(struct Nodes* head)
{
   if (head == NULL)
        return NULL;
   Nodes* temp = head;
   while(temp->next!=NULL)
   {
      temp=temp->next;
   }
   delete temp;

   return head;
}
};
```