case 2: delete (); break; Case 3: display 11; print + (" Exited"): Void insert () { printf ("Enter position: "); scanf (""/cd", & pos); struct node * new = (struct node *) mallor (size of (struct node)); printf (" Enter the data: "); scant (" "/od", frew-)data); if (head == NULL) new - prev = NULL; new -) next = Nou; print (" Node invented \n"); else { for (i=0; i < pos -1; i++) f ptr = ptr -> next: 3 new > prev = 12000 jetr -> prev; new - next = head ptx; ptr hoad -> prev -> next = new; head = news; ptx -> prev = new; printf ("Node insented \n")

```
void delete ()
   int val;
   printf ("Enter the value: ");
   scanf (" "lod", fral);
   struct node * ptr = head;
   if (head -> data == + val
        head = ptr -> next;
        free (ptr);
point + (" Node deleted \n");
        xetern;
    while (ptr -> data!=val)
         ptr = ptr -> next;
         if (pto -> next == NULL)
           ptr -> prev -> next = NULL;
         free (ptx):
              printf ("Node deleted \n");
           return;
     ptr -> prev -> next = ptr-> next;
     ptr -> next -> prex = ptr -> prev;
     free (ptx);
      printf ("Node deleted |n");
```

	void display ()
	<i>\\</i>
	struct nede *p=head;
	while (p != NVLL)
	1
	print + (" ° lod -> ", p -> data);
	· · · · · · · · · · · · · · · · · · ·
	p=p-> next;
	printf ("Nun \n");
	2
	OUTPUT:
	Pren 1. Insert
	2. Delete
	3. Display
	Enter choice: 1
	- Min dala
	Enter choice: 1
-	Enter data 15
	Enter position: 1
	Enter Choice 1]
	Enter position: 2
	Enter data: 3
	Enter choice: 3
_	45->3->4-> NULL
_	Enter choice : 3
	Foto Node deleted
	Enter choice: 3
	5 -> 4 3 NULL
	Enter Choice: 4
	Exited