

DATA STRUCTURE CODING QUE.

```
Arrays by using c:
program to demonstrate arrays in e
# include Twindows . h>
# include < stdio. h>
# include < stdiin. h>
# define NOM- EMPLOYEE 10
int main (int argc, char * arg ul]
Fint salary [NUM- FMPLOYFE] , I count =0,
    g count=0 , 1=0;
   prints ("foter employee salary (MAX 10) /n");
      For (1=0; i < NOM EMPLOYEE; i++)
    printf ("In Enter employee salary: old -",
    scanf ("olod", & salary [i]);
      for ('i=0; ix HUM-EMPLOYEE; itt)
    if (salary [i] 13000)
      I count ++;
     else
      grount ++;
   print ("In There are zolod zemployee with
          salpry more than 3000 In", g count);
   printf (" more are & good } employee with salary
          less than 3000 in " I count);
   prints ("press fater to continue ... In");
```

```
getchar ();
 seturn o;
inked ist in ctt:
using hamospace std;
template < typename T7
 class node
 public:
  T value ;
 Mode * next;
   Made * previous;
   Hode (Traine)
   this -> value = value;
 template < typename T >
 class linked list
  private:
  int size;
  Node < T7 $head - = NVIL:
  Hode KT7 "tail= HULL;
  Node (T) "it" = NULL;
  public ;
  inked list ()
   this -7 size = 0;
```

```
void append (Trame)
       if (this -> head == NULL)
       this - Thead - = now Node XT7 (value);
       this - > tail = this -> head - 3
     else
      this -> tail -> nest = new node < T7 (value)
      this -> tail -> next -> previous = this
                         -> tail i
     this -> size - + = 13
    void prepend (T value)
    void reser Iterator ()
    tail - = NULL;
int main (intarge, char "argu)
   Inked List Kint > 1 List ;
   Hist append (10);
   Hist-append (3);
    llist append (1);
  cout of "printing linked list xx and 1;
   seturn o;
```

stack implementation in c: #include (stdio.h) "UT WEXSIZE = 8; int stack [8]; int top = -1; int (sempty () {
 if (top = = -1) return 13 else return o; misfull() { if (top = = mAXSIRE) seturn 1; else return 0; } int peek () } seturn stack [top? 3 } m+ pap () } int data; if (!isempty()) ? data = Stack [top]; top = top-1; return data; ? else f prints ('could not retirere date, steck is empty In') int push (int data) & if (listull ()) } top = top+1;



```
Stack (top) = data ;
  } else }

print (" could not insent data, stack is full hill
int main () &
  Il push items on to the stack
  push (3);
  push (5);
  push (g);
  push (1) 5
  push (12);
  push (15);
  printf ("Flement at top of the stack : "lod In", poeks)
  printf ("Flements: In");
 11 print stack data
 Kinie (lisewath ()) {
    int date = pop ();
     printe ( "rod In ", data);
printf ("stack full: o/as In", is full (12 true": "False");
 printf("stack empty: 905/n", isempty() "true", faut
 return o;
```