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| 1 | C program to create linklist& traverse linklist |
|  | #include "stdio.h"  struct xxx  {  int roll;  char name[30];  struct xxx \*link;  };  struct xxx \* create\_linklist();  void traverse(struct xxx \*);  main()  {  struct xxx \*base;  base=create\_linklist();  traverse(base);  }  void traverse(struct xxx \*p)  {  while(p!=0)  {  printf("%d %s\n",p->roll,p->name);  p=p->link;  }  }  struct xxx \*create\_linklist()  {  struct xxx \*p,\*q,\*head;  char x[5];  p=malloc(sizeof(struct xxx));  p->link=0;  head=p;  printf("enter roll");  scanf("%d",&p->roll);  printf("Enter name");  scanf("%s",p->name);  while(1)  {  printf("Do u continue yes/no");  scanf("%s",x);  if(strcmp(x,"no")==0)  break;  q=malloc(sizeof(struct xxx));  p->link=q;  p=q;  printf("enter roll");  scanf("%d",&p->roll);  printf("Enter name");  scanf("%s",p->name);  }  p->link=0;  } |
| 2 | Remove the duplicate nodes from a linked list |
|  | int remove\_duplicate(struct xxx \*p)  {  struct xxx \*q,\*r;  while(p->ad!=0)  {  r=p;  q=p->ad;  while(q!=0)  {  if(p->roll==q->roll)  {  r->ad=q->ad;  free(q);  q=r->ad;  if(q==0)  break;  }  r=q;  q=q->ad;  }  p=p->ad;  }  } |
| 3 | Reverse a linked list |
|  | #pragma pack(1)  struct xxx  {  int roll;  struct xxx \*ad;  };  struct xxx \* create\_list();  struct xxx \* reverse();  main()  {  struct xxx \*b;  b=create\_list();  b=reverse(b);  traverse(b);  }  struct xxx \* create\_list()  {  struct xxx \*p,\*q,\*r;  char ch[5];  p=malloc(sizeof(struct xxx));  r=p;  printf("Enter roll:");  scanf("%d",&p->roll);  while(1)  {  printf("do you want to continue?? yes/no");  scanf("%s",ch);  if(strcmp(ch,"no")==0)  break;  q=malloc(sizeof(struct xxx));  p->ad=q;  p=q;  printf("Enter roll no: ");  scanf("%d",&p->roll);  }  p->ad=0;  return r;  }  int traverse(struct xxx \*b)  {  while(b!=0)  {  printf("%d",b->roll);  b=b->ad;  }  }  struct xxx \*reverse(struct xxx \*p)  {  struct xxx \*next, \*pre=0;  while(p->ad!=0)  {  next=p->ad;  p->ad=pre;  pre=p;  p=next;  }  return pre;  } |
| 4 | Remove the duplicate nodes from a link list |
|  | int remove\_duplicate(struct xxx \*p)  {  struct xxx \*q,\*r;  while(p->ad!=0)  {  r=p;  q=p->ad;  while(q!=0)  {  if(p->roll==q->roll)  {  r->ad=q->ad;  free(q);  q=r->ad;  if(q==0)  break;  }  r=q;  q=q->ad;  }  p=p->ad;  }  } |