**Circular Single Linked List**

**#include<stdio.h>**

**#include<conio.h>**

**struct circular**

**{**

**int data;**

**struct circular \*next;**

**};**

**struct circular \*temp;**

**struct circular \*head;**

**struct circular \*p;**

**struct circular \*mid;**

**struct circular \*move;**

**int cnt=0;**

**void create(void);**

**void insert(void);**

**void display(void);**

**void del(void);**

**void main()**

**{**

**int ch=0;**

**clrscr();**

**while(ch!=5)**

**{**

**printf("\n1.CREATE");**

**printf("\n2.INSERT");**

**printf("\n3.DELETE");**

**printf("\n4.DISPLAY");**

**printf("\n5.EXIT");**

**scanf("%d",&ch);**

**if(ch==1)**

**{**

**create();**

**cnt++;**

**cnt++;**

**}**

**if(ch==2)**

**{**

**insert();**

**cnt++;**

**}**

**if(ch==3)**

**{**

**del();**

**cnt--;**

**}**

**if(ch==4)**

**{**

**display();**

**}**

**if(ch==5)**

**{**

**break;**

**}**

**}**

**getch();**

**}**

**void create()**

**{**

**head=(struct circular \*)malloc(sizeof(struct circular));**

**head->next=head;**

**printf("ENETER THE DATA");**

**scanf("%d",&head->data);**

**temp=head;**

**temp->next=(struct circular \*)malloc(sizeof(struct circular));**

**temp=temp->next;**

**temp->next=head;**

**printf("ENETER THE DATA");**

**scanf("%d",&temp-> data);**

**}**

**void insert()**

**{**

**int add,t;**

**printf("\n\t ENTER ANY NUMBER BETWEEN 1 AND %d",cnt);**

**scanf("%d",&add);**

**p=head;**

**t=1;**

**while(t<add)**

**{**

**p=p->next;**

**t++;**

**}**

**printf("%d",p-> data);**

**clrscr();**

**mid=(struct circular \*)malloc(sizeof(struct circular));**

**printf("ENETER THE DATA");**

**scanf("%d",&mid-> data);**

**mid->next=p->next;**

**p->next=mid;**

**}**

**void display()**

**{**

**p=head;**

**printf("%d-->",p-> data);**

**p=p->next;**

**while(p!=head)**

**{**

**printf("%d-->",p-> data);**

**p=p->next;**

**}**

**}**

**void del(void)**

**{**

**int add,t;**

**printf("\n\t ENTER ANY NUMBER BETWEEN 1 AND %d",cnt);**

**scanf("%d",&add);**

**p=head;**

**t=1;**

**while(t<add-1)**

**{**

**p=p->next;**

**t++;**

**}**

**printf("%d",p-> data);**

**clrscr();**

**mid=p->next;**

**p->next=mid->next;**

**}**