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GOPIKRISHNA V

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#include <stdio.h>

#include <stdlib.h>

#define max 10

int arr[max];

int isempty = 1;

void insert()

{

int item, key, i;

printf("Enter the element = ");

scanf("%d", &item);

key = item % 10;

if (arr[key] == -1)

{

arr[key] = item;

isempty = 0;

}

else

{

for (i = key + 1; i < max; i++)

{

if (arr[i] == -1)

{

arr[i] = item;

isempty = 0;

break;

}

}

}

}

void EmptyTable()

{

int i;

for (i = 0; i < max; i++)

{

arr[i] = -1;

}

}

void display()

{

int i;

if (isempty)

{

printf("Table Empty\n");

}

else

{

for (i = 0; i < max; i++)

{

if (arr[i] != -1)

{

printf("[%d] ", arr[i]);

}

else

{

printf("[NULL] ");

}

}

}

printf("\n");

}

void search()

{

int key, i, found = 0;

printf("Enter the element to be seached = ");

scanf("%d", &key);

for (i = 0; i < max; i++)

{

if (key == arr[i])

{

found = 1;

printf("Element found at %d th position\n", i+1);

break;

}

}

if (found == 0)

{

printf("Element not found\n");

}

}

void main()

{

int ch;

EmptyTable();

start:

printf(" \n### MENU ###");

printf("\n1.Insert");

printf("\n2.Display");

printf("\n3.Search");

printf("\n4.Exit\n");

printf("Choice >>> ");

scanf("%d", &ch);

switch(ch)

{

case 1:insert();

break;

case 2:display();

break;

case 3:search();

break;

case 4:exit(0);

break;

default:printf("Wrong Input\n");

}

goto start;

}

**OUTPUT**

** **