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|  | Bansilal Ramnath Agarwal Charitable Trust's  Vishwakarma Institute of Information Technology  **Department of**  **Artificial Intelligence and Data Science** | | |
| Name: Siddhesh Dilip Khairnar | | | |
| Class: SY | Division: B | | Roll No: 272028 |
| Semester: IV | | Academic Year: 2022-2023 | |
| Subject Name & Code: Advance Data Structure: ADUA22202 | | | |
| Title of Assignment: Hashing Assignment | | | |
| Date of Performance: 26-04-2023 | | Date of Submission: 26-04-2023 | |

**ASSIGNMENT NO. 9**

**Program and Output:**

#include <iostream>

using namespace std;

int insert(int ht[], int k);

int delete1(int ht[], int k);

int display(int ht[]);

int insert(int ht[], int k)

{

    int p = k % 10;

    ht[p] = k;

    display(ht);

    return 0;

}

int delete1(int ht[], int k)

{

    int p = k % 10;

    ht[p] = -1;

    display(ht);

    return 0;

}

int display(int ht[])

{

    for (int i = 0; i < 10; i++)

    {

        cout << "\n HT[" << i << "] =" << ht[i];

    }

    return 0;

}

int main()

{

    int hTable[10];

    int key;

    int ch;

    for (int i = 0; i < 10; i++)

    {

        hTable[i] = -1;

    }

    char s;

    do

    {

        cout << "Enter your choice";

        cout << "\n 1.Insert  \n 2.Delete \n3.Display";

        cin >> ch;

        switch (ch)

        {

        case 1:

            cout << "\n Enter key value to insert in table";

            cin >> key;

            insert(hTable, key);

            break;

        case 2:

            cout << "\n enter key value to delete from table";

            cin >> key;

            delete1(hTable, key);

            break;

        case 3:

            display(hTable);

        }

        cout << "\n Do You want go for menu";

        cin >> s;

    } while (s == 'y' || s == 'Y');

    return 0;

}

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