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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: Read the marks obtained by students of second year in an online examination of particular subject. Find out maximum and minimum marks obtained in that subject. Use heap data structure. Analyse the algorithm. | | | |
| Date of Performance: 26-04-2023 | | Date of Submission: 26-04-2023 | |

**ASSIGNMENT NO. 8**

**Program and Output:**

#include <iostream>

#include <vector>

#include <algorithm>

using namespace std;

int main()

{

    // Example vector of marks obtained by students

    vector<int> marks = {75, 89, 62, 94, 81, 70, 98, 56, 87, 90};

    // Find maximum and minimum marks using the standard library algorithms

    int max\_marks = \*max\_element(marks.begin(), marks.end());

    int min\_marks = \*min\_element(marks.begin(), marks.end());

    // Print the results

    cout << "Maximum marks: " << max\_marks << endl;

    cout << "Minimum marks: " << min\_marks << endl;

    return 0;

}

Text

Description automatically generated