Institute of Computer Technology

B. Tech. Computer Science and Engineering

Sub: ESFP-II

Practical -5

AIM: To learn about arrays & strings in C++.

1. Follow the given details for inquiries about student data.

The program will display a menu that enables the users to choose whether they want to view all students 'records or view only the records of a specific student by the student's id. See sample below.

MENU

- 1. View all students' records
- 2. View a student's records by ID
- 3. Show the highest and the lowest final scores

Please enter your choice: 1

Studentl	D Quiz	1 Quiz	22 Mio	d-Term Final	
1232	10	23	45	56	
2343	45	43	24	78	
2343	34	45	45	45	
3423	67	6	65	56	

Note: These records will be stored in a two-dimensional array

2. In this C++ exercise, your are about to display a matrix as shown below. The diagonal of the matrix fills with 0. The lower side fills will -1s and the upper side fills with 1s.

3. Me trying to write a program that change every letter in a given string with the letter following it in the alphabet (ie. a becomes b, p becomes q, z becomes a).

Example:

Sample Input: w3resource Sample Output: x3sftpvsdf

Post Practical Work:

1. Find how many times and in which year an entered birth Day has same day within a span of 100 years?

Example:

Input

Enter Your Birthday: 23-7-1998

OutPut

Your Birthday was on Friday and will be repeated 7 times 2007, 2022, 2036, 2059, 2071,2083, 2091.

2. Write the output of the following program. Assume that all necessary header files are included.

```
void Encrypt(char T[])
{
  for (int i = 0; T[i] != '\0'; i += 2)
     if (T[i] == 'A' || T[i] == 'E')
        T[i] = '#';
     else if (islower(T[i]))
        T[i] = toupper(T[i]);
     else
        T[i] = '@';
}
int main()
{
  char text[]="SaVE EArtH";
  Encrypt(text);
  cout << text << endl;
```

```
return 0;
}
3. include<iostream>
using namespace std;
void main()
  int num[]=\{1,2,3,4,5,6\};
  num[1]==[1]num ? cout<<"Success" : cout<<"Error";</pre>
}
4. Implement a program to insert a dash character (-) between two odd numbers in a given
string of numbers.
Example:
Sample Input: 1345789
Sample Output: Result-> 1-345-789
5.
Find errors, if any, in the following function definition for displaying a matrix: void
display(int A[][], int m, int n)
 for(1=0; i<m; i++)
 for(j=o; j<n; j++)
 cout<<" "<<A[i][j];
 cout << "\n";
```