

CS/SE 2340 - Assignment#4 Due Date: 11/17/23, 11:59 pm

1-Translate the following program to MIPS assembly program (Please explain each instruction in your code by a comment and submit a .asm file)

2-Translate the following program to MIPS assembly program (Please explain each instruction in your code by a comment and submit a .asm file)

```
#include <stdio.h>
int main()
int main()

{
    int arr[10], i, j, k, Size;

    print*("\n Please Enter Number of elements in an array : ");
    scanf("%d", &Size);

print*("\n Please Enter %d elements of an Array \n", Size);
    for (i = 0; i < Size; i+-)
    {
        scanf("%d", &arr[i]);
    }

for (i = 0; i < Size; i+-)
    {
        if(arr[i] = arr[j])
        {
             if(arr[i] = arr[k]) = arr[k] = arr[k] = arr[k] = arr[k] = arr[k]
        }

        print*("\n Final Array after Deleteing Duplicate Array Elements is:\n");
    for (i = 0; i < Size; i+-)
    {
             print*("\n Final Array after Deleteing Duplicate Array Elements is:\n");
        for (i = 0; i < Size; i+-)
        {
             print*("\xd\t", arr[i]);
        }
        return 0;
    }
}</pre>
```

3-Translate the following program to MIPS assembly program (Please explain each instruction in your code by a comment and submit a .asm file)

```
#include <iostream>
using namespace std;
// Get the size m and n
#define M 4
#define N 4
// Function to calculate sum
// of elements in 2d array
int sum(int arr[M][N])
    int i, j;
    int sum = 0;
    // Finding the sum
    for (i = 0; i < M; ++i) {
        for (j = 0; j < N; ++j) {
            // Add the element
            sum = sum + arr[i][j];
    return sum;
// Driver code
int main()
{
    int i, j;
    int arr[M][N];
    // Get the matrix elements
    int x = 1;
    for (i = 0; i < M; i++)
        for (j = 0; j < N; j++)
arr[i][j] = x++;
    // Get sum
    cout << sum(arr);</pre>
    return 0;
```