

CSE Assignment (C++)

Problem 1

Question:

C++ program to copy one string to another by passing address of strings as arguments to a function

Code:

```
#include <iostream>

using namespace std;

void cpstr(char *dest, char *src)
{
    for (int i = 0; *(src + i) != '\0' && *(dest + i) != '\0'; i++)
    {
        *(dest + i) = *(src + i);
    }
}

int main()
{
    char x[10] = "Applemann", y[7] = "Nanabi";

    cpstr(y, x);

    cout << y << endl;

    return 0;
}
```

Output:

Applem

Problem 2

Question:

C++ program to find an integer value (given as input) in an array, by passing the array and its size as arguments to a function

Code:

```
#include <iostream>

using namespace std;
```

```

int findInt(const int &search, const int *srcarror, const int &size)
{
    for (int i = 0; i < size; i++)
    {
        if (*(srcarror + i) == search)
        {
            return i;
        }
    }

    return -1;
}

int main()
{
    int arror[5] = {1, 2, 2, 3, 5};

    cout << findInt(3, arror, 5) << endl;

    return 0;
}

```

Output:

```
3
```

Problem 3

Question:

Implement TWO functions, one for converting Celsius to Fahrenheit and another for converting Fahrenheit to Celsius. Function for Celsius to Fahrenheit should take the arguments by reference and function for Fahrenheit to Celsius should have the arguments as pointers

Code:

```

#include<iostream>

using namespace std;

double convToFar(double &cels)
{
    return (cels * ((double)9 / (double)5)) + 32;
}

double convToCels(double *far)
{
    return (*far - 32) * ((double)5 / (double)9);
}

```

```
int main()
{
    double cels = 500;
    double far = 200;

    cout << "Celcius to Farenheit : " << convToFar(cels) << endl;
    cout << "Farenheit to Celsius : " << convToCels(&far) << endl;

    return 0;
}
```

Output :

```
Celcius to Farenheit : 932
Farenheit to Celsius : 93.3333
```
