**Assignment 2 Lab**

**Q1.To input an integer array and find the maximum and minimum elements in the array using if and conditions.**

**Code:-**

//Program to find the maximum and minimum element in an array

//AC-1216 Harsh Bamotra

#include <iostream>

using namespace std;

int main()

{

int numbers[5] , num , max , min; //defining array and variables

for(int i=0 ; i<5 ; i++)

{

cout << "Enter the numbers::"; //Taking array elements form the user

cin >> num;

numbers[i]=num;

}

cout << "The array you entered::";

for(int i=0 ; i<5 ; i++)

{

cout << numbers[i] << " "; //Displaying the inputted array

}

cout <<endl;

max=numbers[0];

min=numbers[0]; //Initializing max and min

for(int i=0 ; i<5 ; i++)

{

if(max<numbers[i])

{

max=numbers[i]; //checking for the largest number

}

if(min>numbers[i])

{

min=numbers[i]; //checking for the smallest number

}

}

cout << "The largest number::" << max << endl; //printing the largest number

cout << "The smallest number::" << min << endl; //printing the smallest number

return 0;

}

**Output:-**

**A picture containing text, monitor, screenshot, electronics

Description automatically generated**

**Q2.To input a double array and calculate the sum of all the elements of the array.**

**Code:-**

//Program to calculate the sum of all the elements of the array

//AC-1216 Harsh Bamotra

#include <iostream>

using namespace std;

int main()

{

double numbers[5] , num , sum=0; //defining array and variables

for(int i=0 ; i<5 ; i++)

{

cout << "Enter the numbers::"; //Taking array elements form the user

cin >> num;

numbers[i]=num;

sum+=numbers[i]; //calculating the sum

}

cout << "The array you entered::";

for(int i=0 ; i<5 ; i++)

{

cout << numbers[i] << " "; //Displaying the inputed array

}

cout << endl;

cout << "The sum of all the elements::" << sum; //printing the sum

return 0;

}

**Output:-**

A picture containing text, monitor, computer, screenshot

Description automatically generated

**Q3.To declare a character array and initialize it with hello world and print the character array without using gets and puts.**

**Code:-**

//Program to declare and initialize a character array and print it

//Harsh Bamotra AC-1216

#include <iostream>

using namespace std;

int main()

{

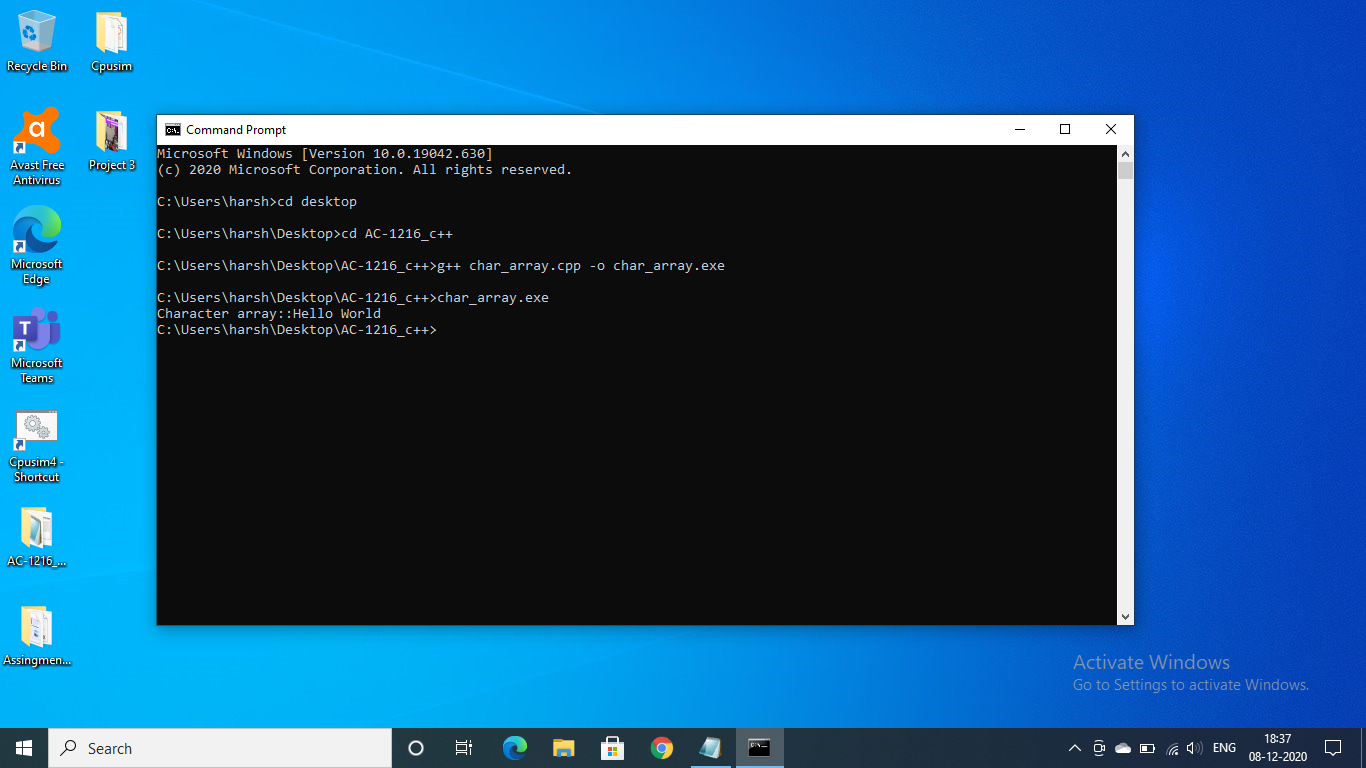
char arr[20]={'H','e','l','l','o',' ','W','o','r','l','d'}; //Declaring and initializing array

cout << "Character array::" << arr; //Printing the array

return 0;

}

**Output:-**

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