**

**Introduction to Programming**

**21.1 Plymouth Pre Course Program**

**Faculty of Computing**

**Day 02 – C Programming Language / C# Programming Language**

1. **Create a C function to add two numbers and display the answer inside the function when numbers passed as parameters to the function. Note that user should input numbers to the application.**
2. **Create a C function to define an integer array based on user given size. Size of the array should be passed to the function as a parameter. Inside the function user should insert values to the array and display the values inside the array.**
3. **Modify the above program to return the maximum value of the array as a return value out of the function.**
4. **Write a function integerPower(base, exponent) that returns the value of baseexponent For example, integerPower( 3, 4 ) = 3 \* 3 \* 3 \* 3. Assume that exponent is a positive, nonzero integer, and base is an integer.Function integerPower should use for to control the calculation. Do not use any math library functions.**
5. **Write a function to check whether the user input number is an odd number or an even number.Your function should return a character value. If the number is Odd, function should return “O” , if the number is even your function should return ”E”.**
6. **Create a C# console application to display following statement as it is,**

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1. **Create a C# console application program to get user’s name as an input value and display a greeting message.**
2. **Create a C# console application to get two integer numbers and display the summation of user inserted values.**
3. **Create a C# console application program to convert user given TB value to KB value.**
4. **Create a C# console application to check whether the user is an adult or child.**
5. **Create a C# console application to display first ten square numbers.**
6. **Create a C# console application project to declare integer single dimension array size of 10. Get user inputs to the array and display the values.**
7. **Find the max and min values in above array.**
8. **Declare a two dimensional array which contains 3 rows and 4 columns using C# and enter values. Display the values inside the array using relevant techniques.**
9. **Create a C# console application project to swap two user inserted integers and display the answers.**