University of Washington

Extension Program

Name_____

1. Write a program that asks for the user's name and age and then displays:

   You are *NAME* and you are approximately *X* hours old

   Calculate the user's age in hours by passing the age to a function that performs the calculation and returns the age in hours.

2. Write a program that invokes a function to convert a temperature the user enters in Fahrenheit to Celsius. (Celsius = 5/9 (Fahrenheit – 32). Display both the Fahrenheit and Celsius temperatures with 3 digits of precision in two side by side columns

3. Write a program that asks for three integers from the user and then displays the integers, the sum of the integers, and the product of the integers. The sum and product of the integers are to be calculated in separate functions which are called from main().

4. Write a program that invokes a function to calculate the number of gallons of fuel required for traveling 2000 miles. The car gets 16.5 miles to the gallon. If fuel is $1.52 a gallon and its costs $0.26 to operate the car each mile, write a second function to calculate the total cost of the trip.

5. Write a program that declares an array of 5 integers. Write a function that prompts the user for a value to initialize the array to. Initialize the elements of the array to that value.