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Homework 1
COSC 1306: Computer Science and Programming
University of Houston
Department of Computer Science
Sent on: Sept. 8, 2016; Due: Sept. 15, 2016

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Name :

Type – Individual Work

1. (100 Points).

Create a Python Program that does the following. The program will provide the user with 5 dishes from a restaurant. The dishes must include 1 appetizer, 3 main dishes, and 1 dessert. The user must type a zero (0) if she/he does not want that dish and a one (1) if she/he does want to have that dish. All dishes have a fixed price that you must decide on. After reading the choices by the user you should output the total cost of the dishes, the taxes, and the total amount owed by the user. Make sure to add comments to your program. You need to provide a printout with your code, and a printout of one run of your program. Make sure to add name and student id. to each printout. The home work is due on Thursday Sept. 15 by the end of the class.

Example:

Welcome to Restaurant Yummy Food!

Type 1/0 if you want or not one of the following dishes:

Edamame ($2.00): 0

Alaskan Salmon with garlic ($12.00): 1

Grilled Chicken with Mashed Potatoes ($8.00): 0

Meatloaf English Style ($11:00): 1

Chocolate Chip Cookies ($3.00): 1

Total Cost of Food Items: $26.00

Taxes (8%): $2.08

Total Cost with Taxes: $28.08

2. (2 extra points in 1st midterm exam) Challenge exercise (**OPTIONAL**).
   Translate a decimal number that can only go from 0-31 in binary format. You need to provide all 5 bits when doing the conversion. Provide printout for code and one example.

   Example:

   Enter the decimal number: 9

   Number in binary format is: 01001