# User Interface WC4

## Test – version 1

Duration: 2 hours 30 minutes.

| Student Name | Student ID |
|---|---|
| | |

**Choose one question to develop. Save your answer as question_number_your_name.html**

**Create your own user interface style for any question.**

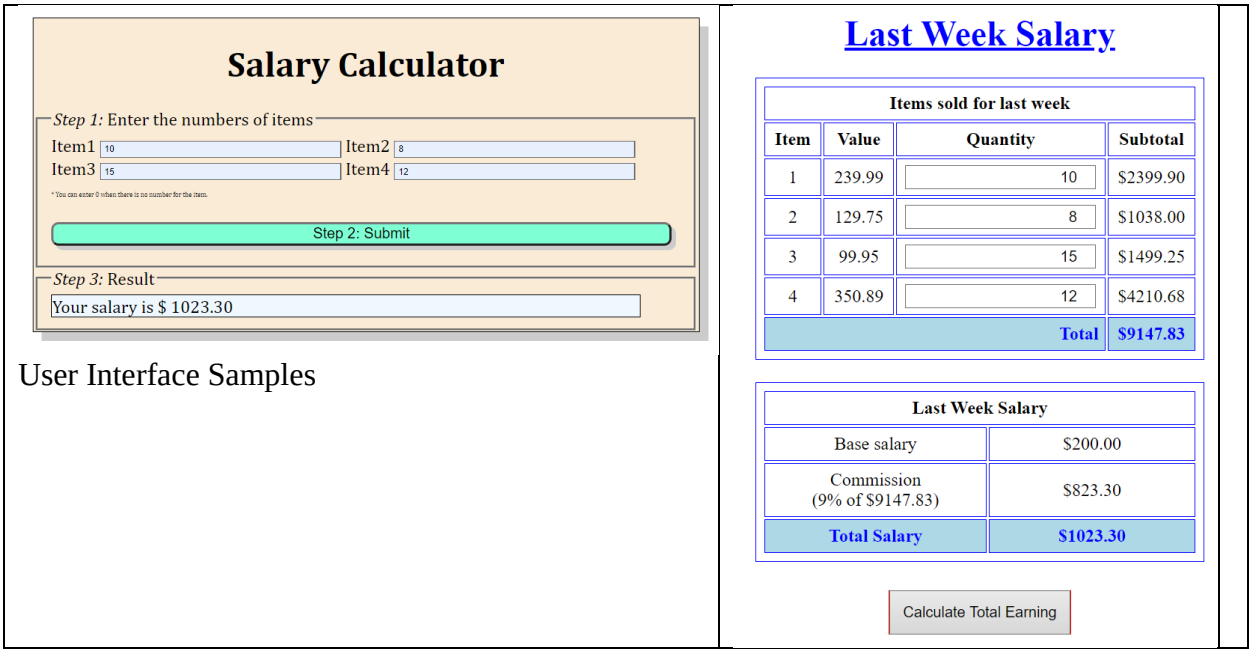
### *Question 1*

A large company pays its salespeople on a commission basis. The salespeople receive $200 per week, plus 9 percent of their gross sales for that week. For example, a salesperson who sells $5000 worth of merchandise in a week receives $200 plus 9 percent of $5000, or a total of $650.

You have been supplied with a list of the items sold by each salesperson. The values of these items are as follow:

| Item | Value |
|---|---|
| **1** | 239.99 |
| **2** | 129.75 |
| **3** | 99.95 |
| **4** | 350.89 |

Develop a program that inputs one salesperson's items sold for last week, calculate the salesperson's earning and output HTML text that display the salesperson's earnings. Use an external JavaScript file (earning.js) and save your webpage as **Q1_your_name.html**




User Interface Samples

## *Question 2*

A mail-order house sells five different products whose retail prices are as follow:

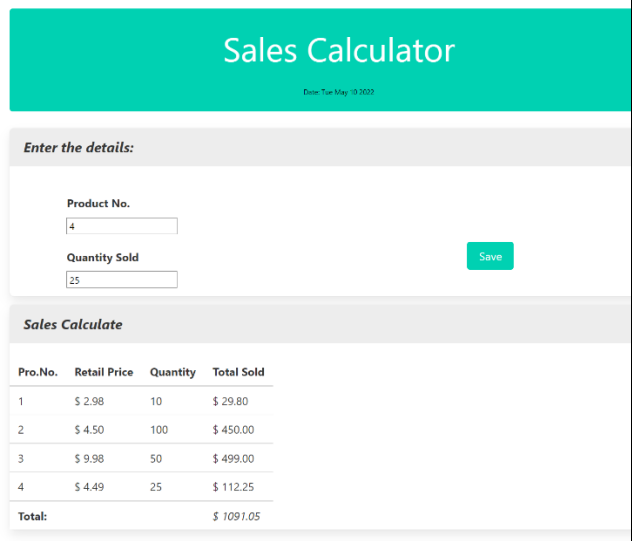
| Product No. | Retail Price |
|---|---|
| **1** | $2.98 |
| **2** | 4.50 |
| **3** | 9.98 |
| **4** | 4.49 |
| **5** | 6.87 |

Write a script that reads a series of pairs of number as follows:

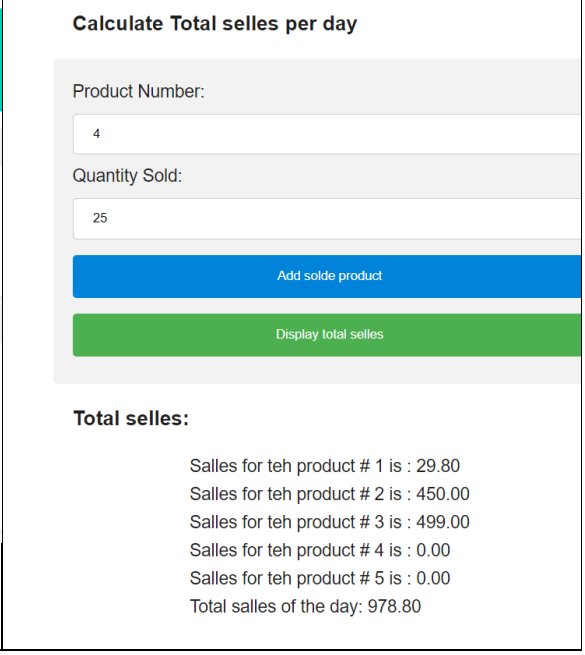
1. Product number
2. Quantity sold for one day

You program should use a switch statement (or any other repetition structure) to determine each product's retail price and should calculate and output the total retail value of all the products sold last week. Use a prompt dialog to obtain the product number and quantity from the user. Use a sentinel-controlled loop to determine when the program should stop looping and display the final results.

Use an external JavaScript file (retailValue.js) and save your webpage as **Q2_your_name.html**




User Interface Samples




August 10, 2022

## *Question 3*

Consider the following problem statement:
A college offers a course that prepares students for the province licensing exam for real estate brokers. Last year, several of the students who completed this course took the licensing exam. Naturally, the college wants to know how well its students performed.

You have been asked to write a program to summarize the results. You have been given a list of these 10 students. Next to each name is written a 1 if the student passed the exam and a 2 if the student failed.

Your program should analyze the results of the exam as follows:

1. Input each test result (i.e., a 1 or a 2). Display the message "Enter result" on the screen each time the program requests another test result.

2. Count the number of test results of each type.

3. Display a summary of the test results indicating the number of students who passed and the number of students who failed.

4. If more than eight students passed the exam, print the message "Raise tuition."

After reading the problem statement carefully, we make the following observations about the problem:

1. The program must process test results for 10 students. A counter-controlled loop will be used.

2. Each test result is a number—either a 1 or a 2. Each time the program reads a test result, the program must determine whether the number is a 1 or a 2. We test for a 1 in our algorithm. If the number is not a 1, we assume that it is a 2.

3. Two counters are used to keep track of the exam results—one to count the number of students who passed the exam and one to count the number of students who failed the exam.

After the program processes all the results, it must decide whether more than eight students passed the exam.

Use an external JavaScript file (analysis.js) and save your webpage as **Q3_your_name.html**