

Programming Concepts

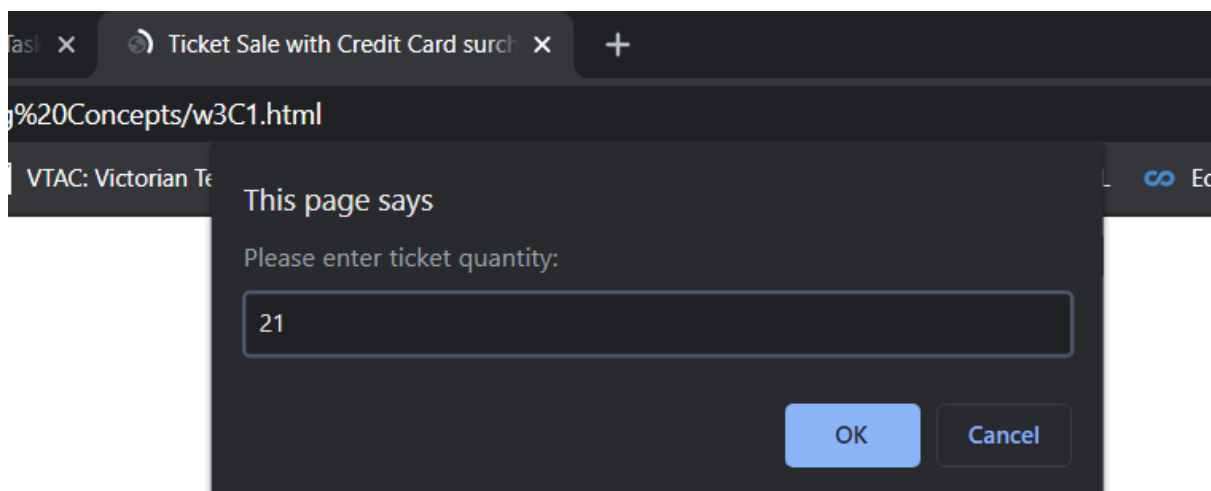
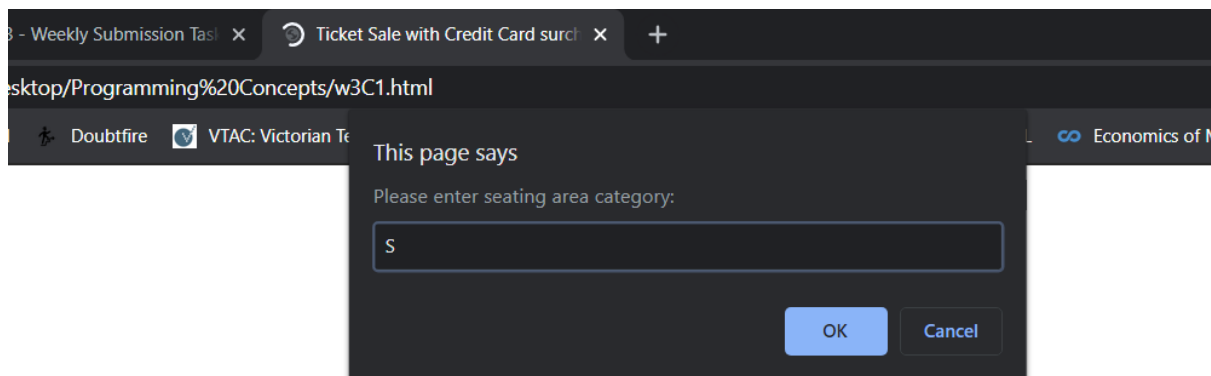
Week 3 **CREDIT** Submission Tasks Template

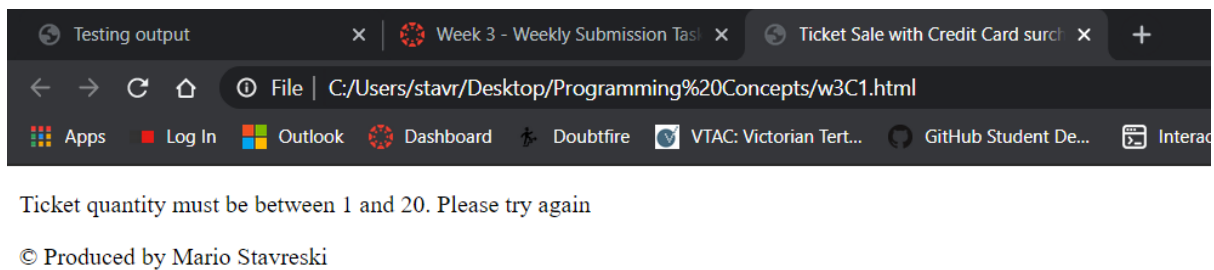
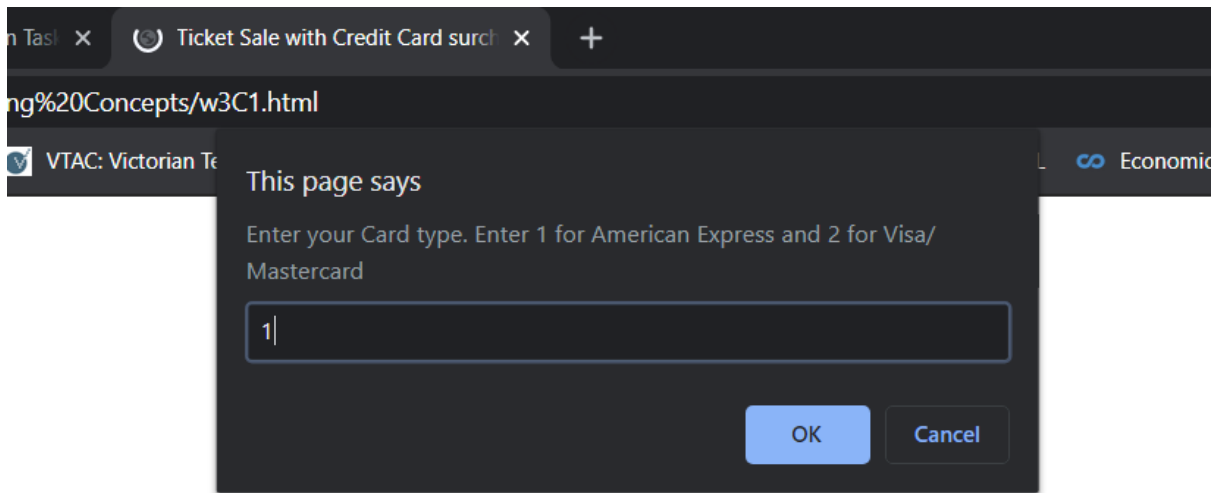
Student ID: _____103055993_____

Student Name: _____Mario Stavreski_____

Credit Task 7 set of screenshots with valid seating category and invalid quantity

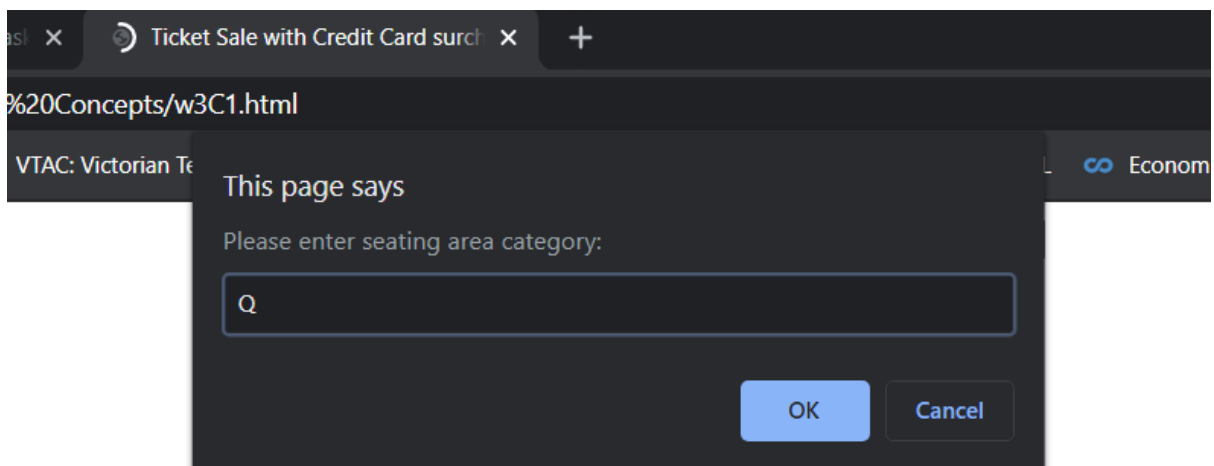
Paste the screen capture of the tickets sale calculator web page as shown by the browser here.

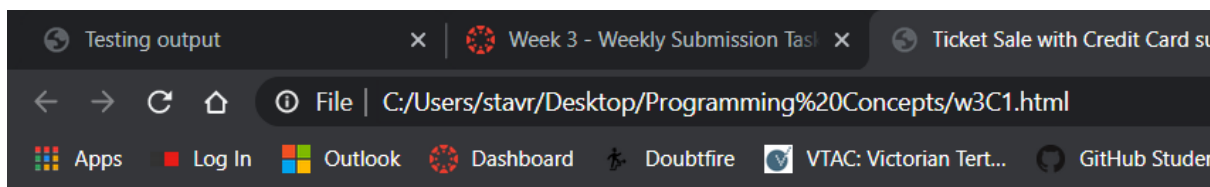
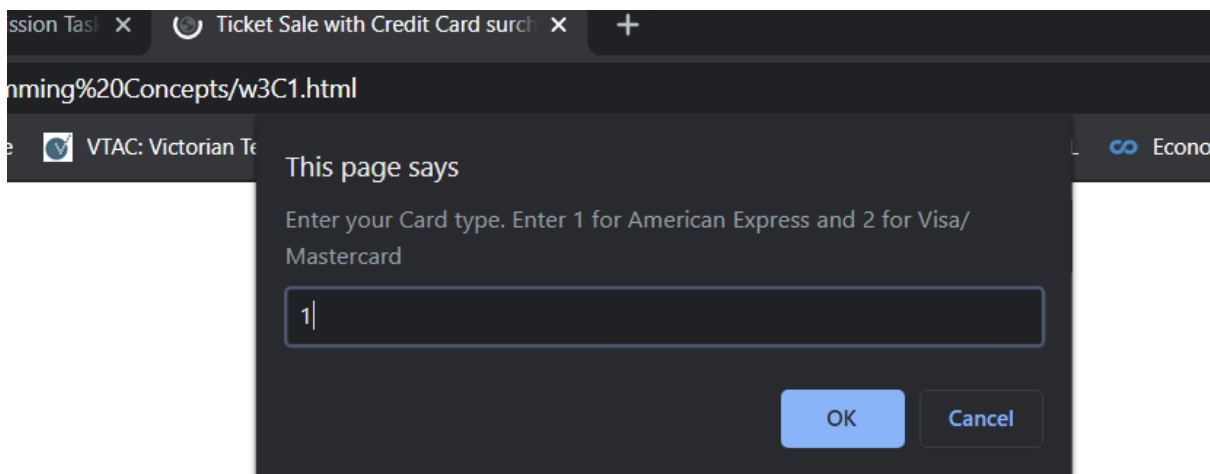
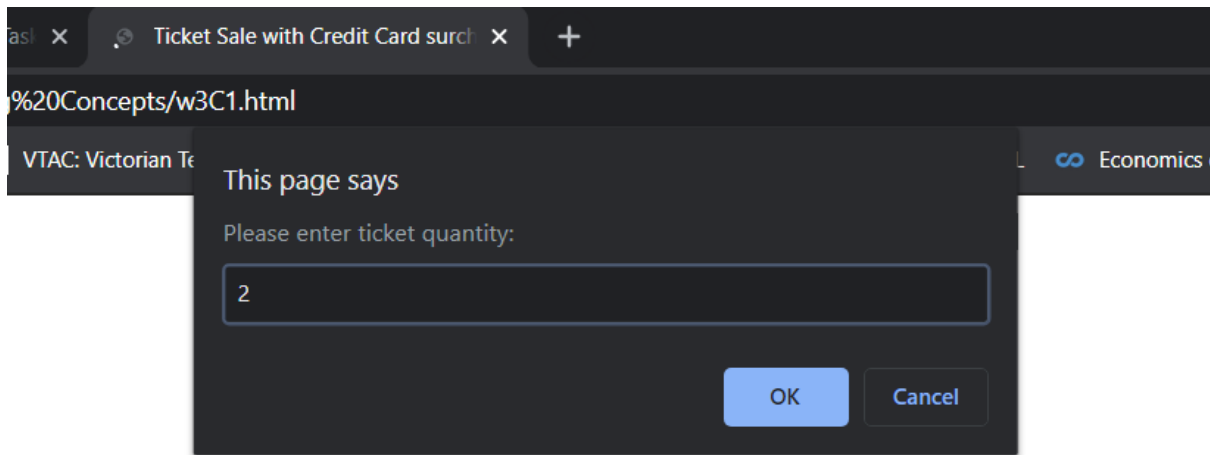




Credit Task 7 set of screenshots with invalid seating category and valid quantity

Paste the screen capture of the tickets sale calculator web page as shown by the browser here.



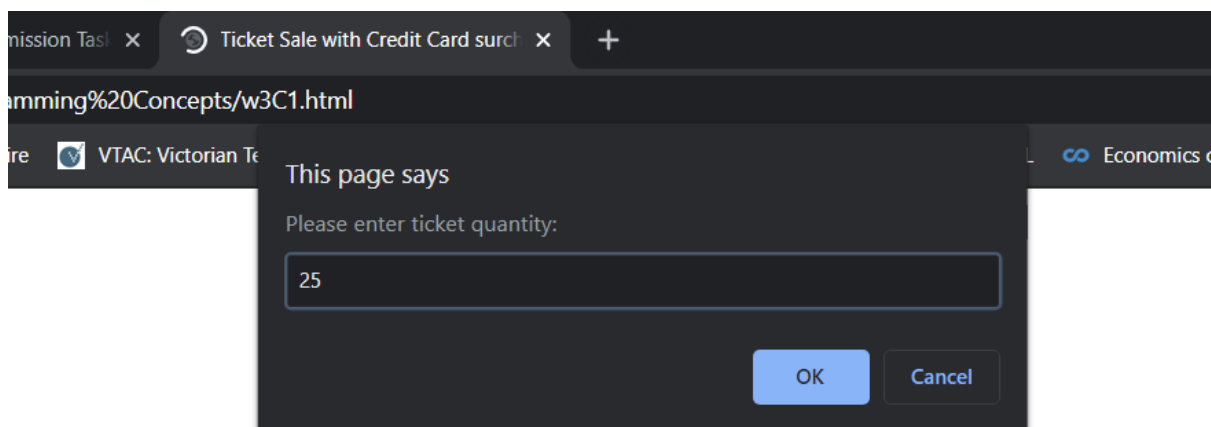
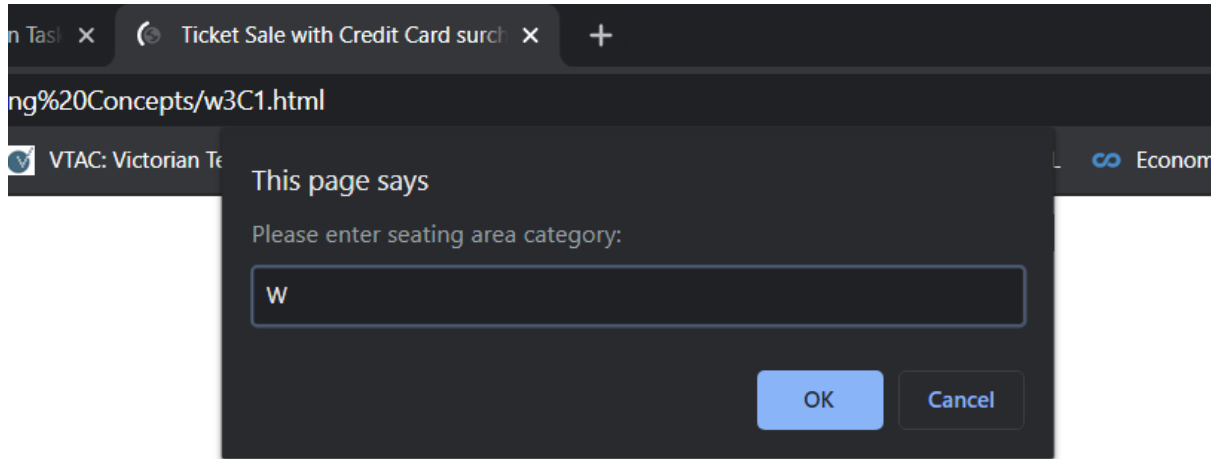


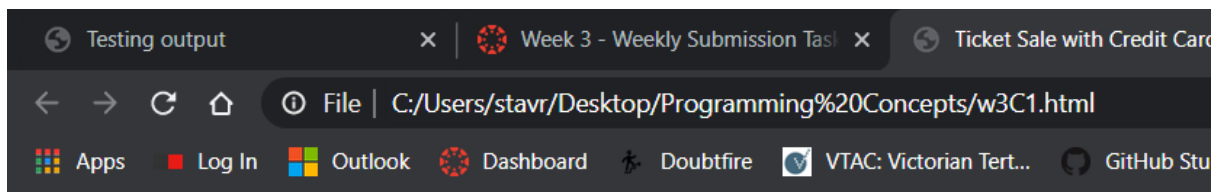
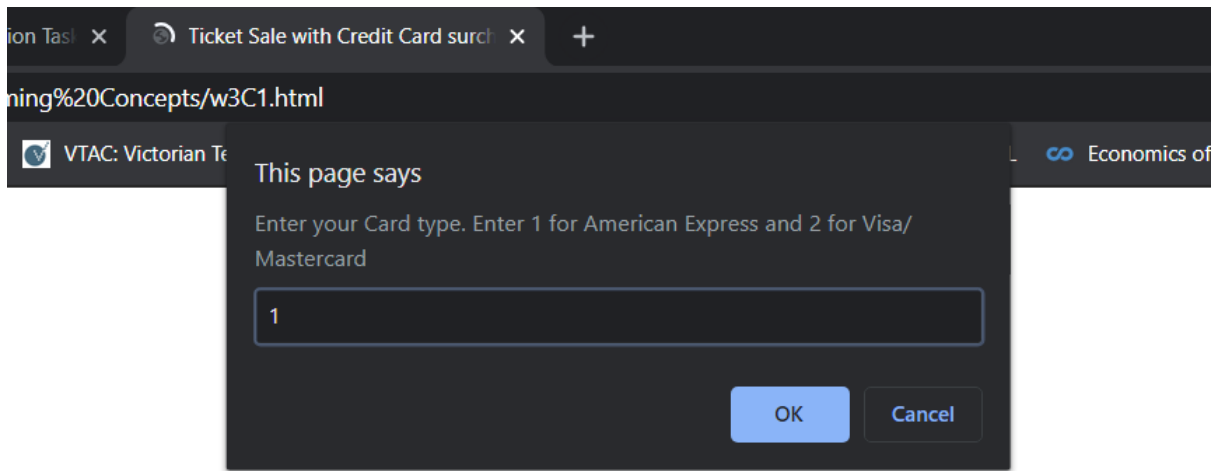
Q is not a valid seating area category. Please try again.

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Credit Task 7 set of screenshots with invalid inputs

Paste the screen capture of the tickets sale calculator web page as shown by the browser here.





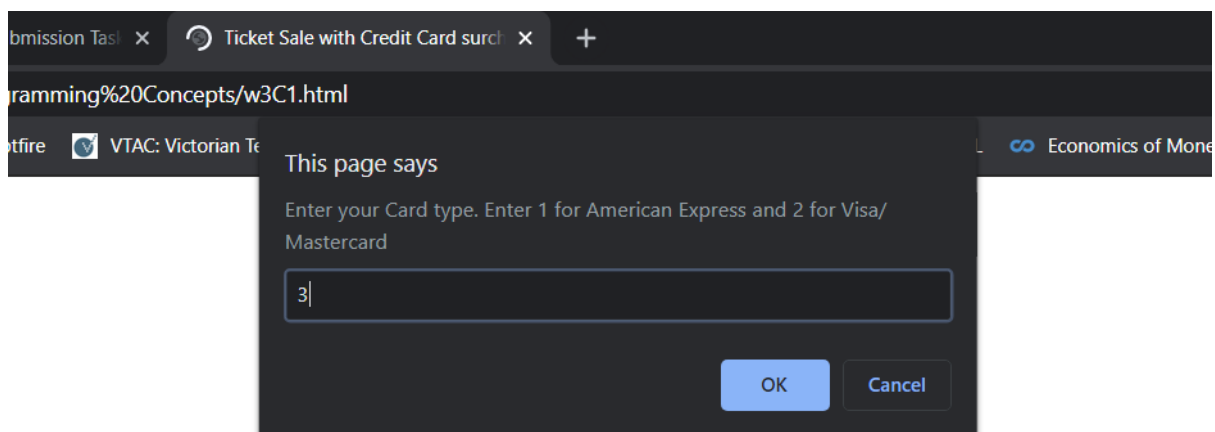
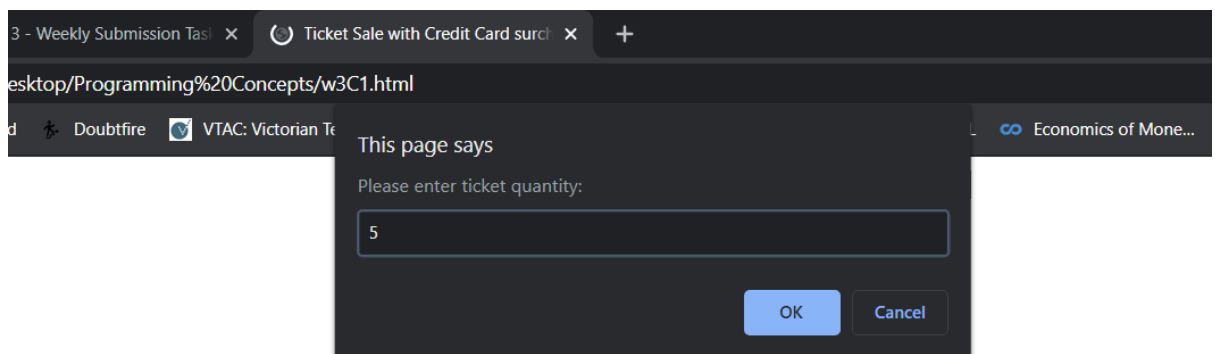
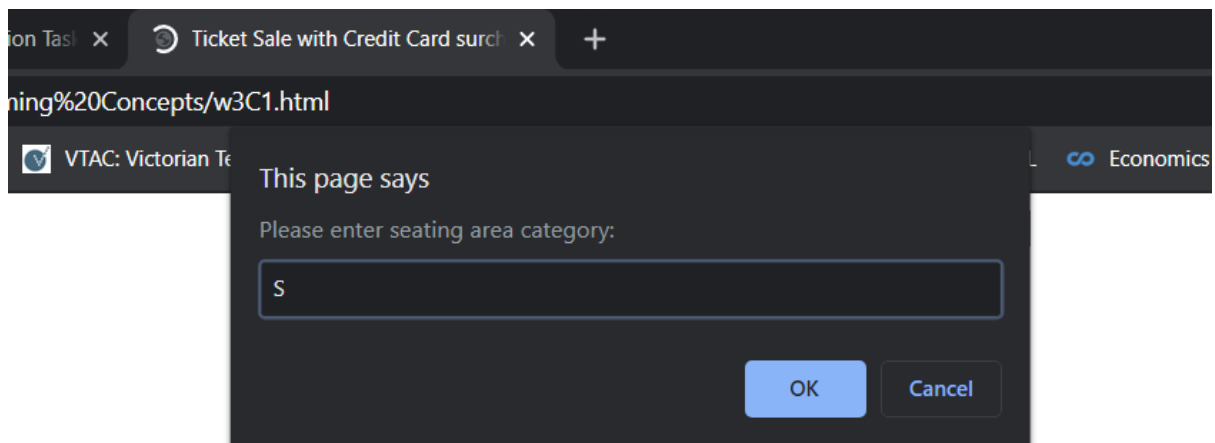
W is not a valid seating area category. Please try again.

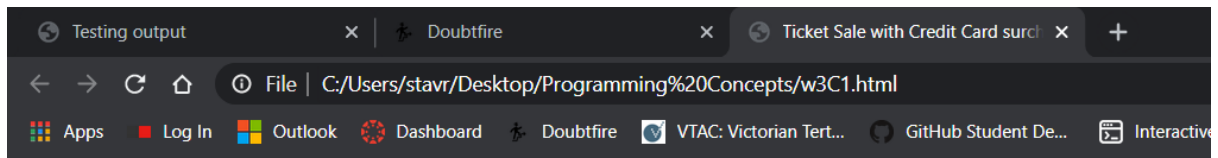
Ticket quantity must be between 1 and 20. Please try again

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Credit Task 7 set of screenshots with invalid card type entered

Paste the screen capture of the tickets sale calculator web page as shown by the browser here.



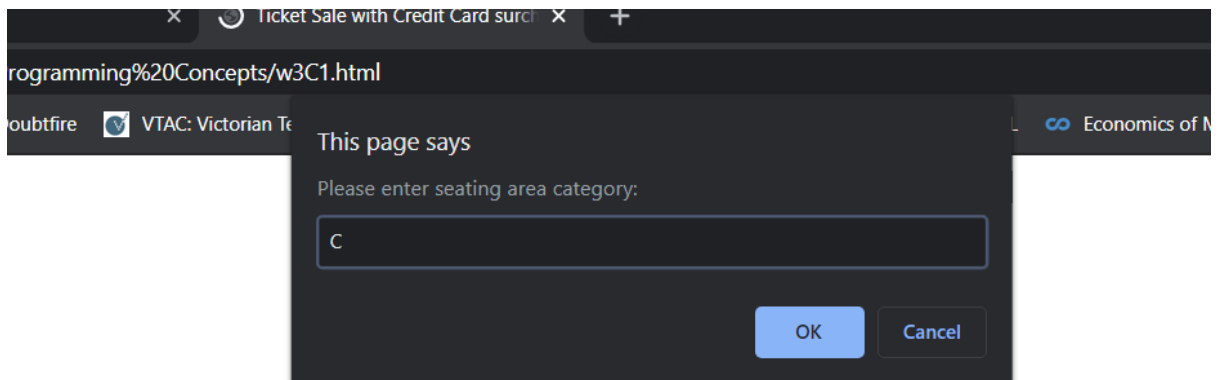


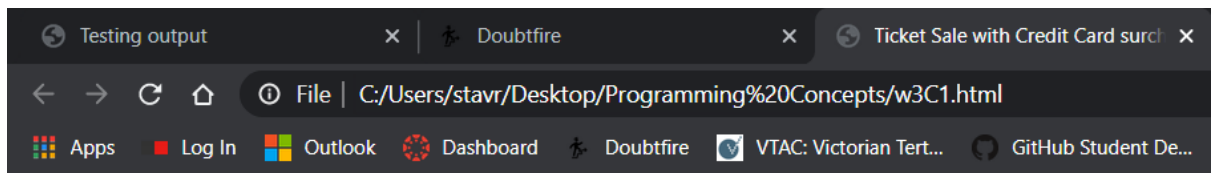
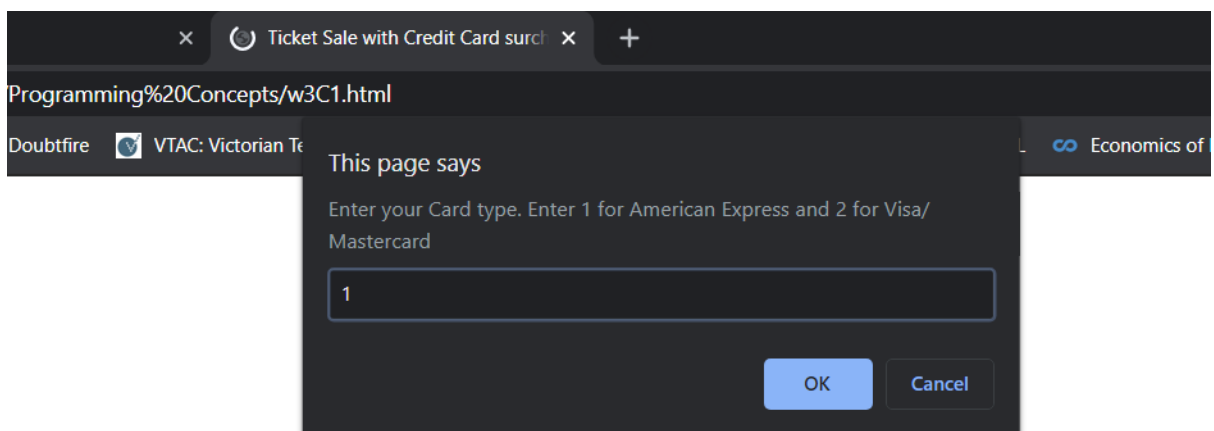
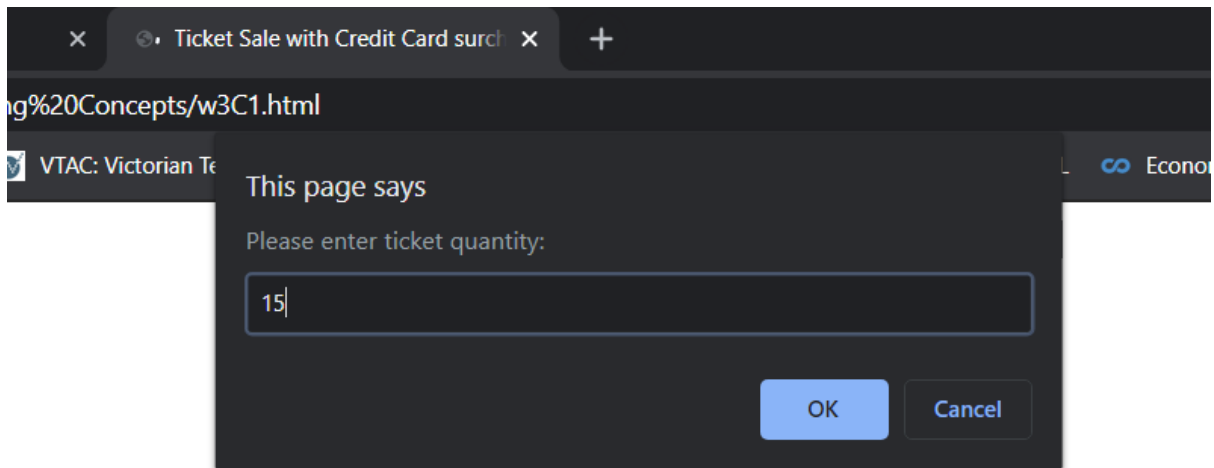
Invalid credit card type. Please enter 1 for American Experess or 2 for Visa/Mastercard

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Credit Task 7 set of screenshots with valid seating category and valid quantity and payment by AmEx

Paste the screen capture of the tickets sale calculator web page as shown by the browser here.





Your seating area is: C

Price per ticket: \$150.00

Number of tickets ordered: 15

Gross amount: \$2257.00

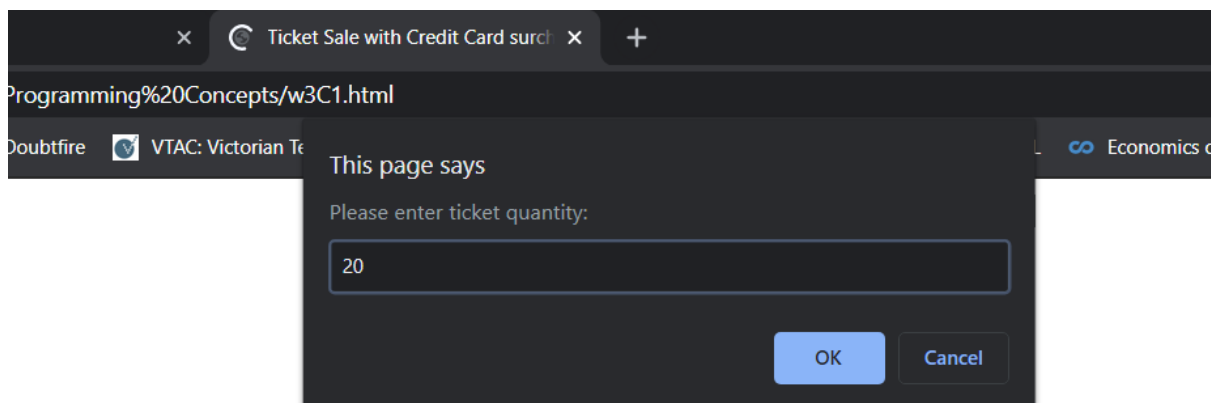
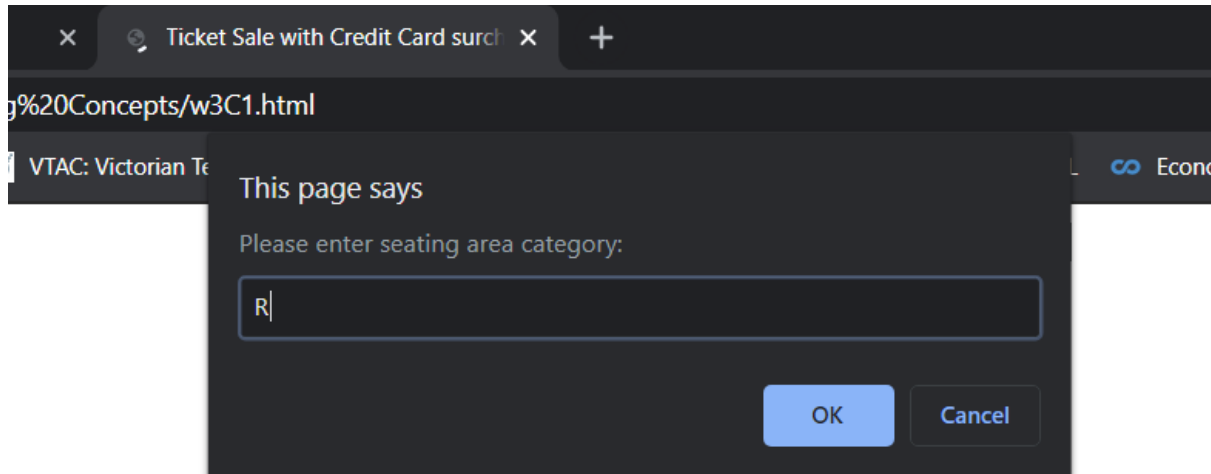
Card fee: \$45.14

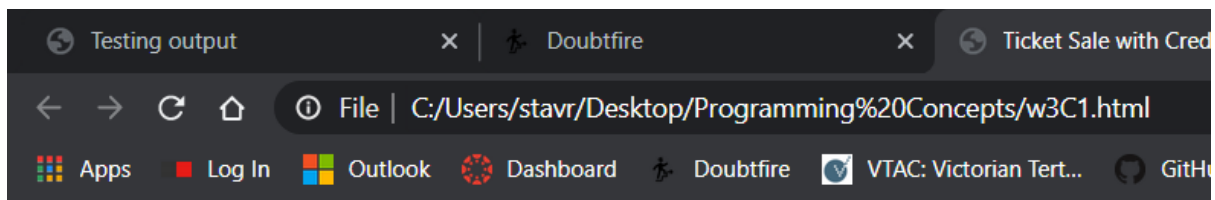
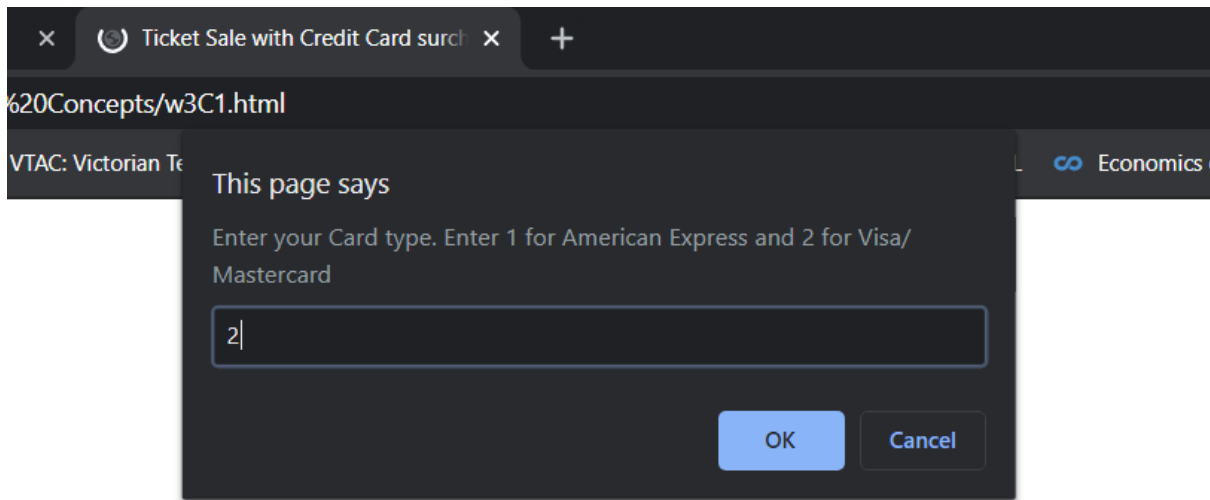
Amount due: \$2302.14

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Credit Task 7 set of screenshots with valid seating category and valid quantity and payment by Visa or Mastercard

Paste the screen capture of the tickets sale calculator web page as shown by the browser here.





Your seating area is: R

Price per ticket: \$70.00

Number of tickets ordered: 20

Gross amount: \$1407.00

Card fee: \$14.07

Amount due: \$1421.07

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[Credit Task 7 html code](#)

Paste the html code of the same page here.

w3C1.html — C:\Users\stavr\Desktop\Programming Concepts — Atom

File Edit View Selection Find Packages Help

w3C.js w3C1.html

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <meta name="description" content="Credit level task" />
6   <meta name="keywords" content="ticket, cost, calculator, surcharge, html, javascript" />
7   <meta name="author" content="Mario Stavreski ID: 103055993" />
8   <title>Ticket Sale with Credit Card surcharge</title>
9   <script src="w3C.js"></script>
10 </head>
11 <body>
12 <header>
13 </header>
14 <article>
15
16   <p id="seatingArea"></p>
17   <p id="pricePerTicket"></p>
18   <p id="ticketQty"></p>
19   <p id="beforeSurcharge"></p>
20   <p id="surcharge"></p>
21   <p id="amountDue"></p>
22
23 </article>
24 <footer><p> &copy; Produced by Mario Stavreski</p></footer>
25 </body>
26 </html>
27
```

Credit Task 7 JavaScript code

Paste the JavaScript code of the same page here.

w3C.js	w3C1.html
<pre>1 /* Filename: w3C.js 2 Target html: w3C1.html 3 Purpose : Calculate the cost of tickets and surcharge amount 4 Author: Mario Stavreski ID: 10305993 5 Date written: 28/03/2020 6 Revisions: v1.0 7 */ 8 9 function surRate(cardType) { // determines the surcharge rate 10 11 var surchargeRate = -1; 12 13 switch (cardType) { 14 case "1": 15 surchargeRate = 0.02; 16 break; 17 case "2": 18 surchargeRate = 0.01; 19 break; 20 } // end switch 21 return surchargeRate; 22 } 23 24 // This function calculates the surcharge amount. 25 26 function surchargeAmount(ticketCost, surchargeRate) { // calculates surcharge amount 27 28 return ticketCost * surchargeRate; 29 } 30</pre>	

```
31 function determineTicketPrice(seatingAreaCategory) { // determines ticket price
32
33     var ticketPrice = 0;
34     switch (seatingAreaCategory) {
35
36         case "S":
37         case "s":
38             ticketPrice = 180;
39             break;
40         case "C":
41         case "c":
42             ticketPrice = 150;
43             break;
44         case "B":
45         case "b":
46             ticketPrice = 100;
47             break;
48         case "R":
49         case "r":
50             ticketPrice = 70;
51             break;
52         default:
53             ticketPrice = 0;
54             break;
55     } // end switch
56     return ticketPrice;
57 }
58
59 function totalAmount(ticketPrice, ticketQty) { // calculates total amount excl. surcharge
60
61     return ticketPrice * ticketQty + 7;
62 }
63
64 function validateQty(ticketQty) { // validates ticket qty
65
66     if (ticketQty >= 1 && ticketQty <= 20) {
67         return true;
68     } else {
69         return false;
70     }
71 }
72
```

```

73 function init() {
74
75     var surcharge;
76     var finalCost;
77     var seatingAreaCategory;
78     seatingAreaCategory = prompt("Please enter seating area category: ");
79
80     var ticketPrice = determineTicketPrice(seatingAreaCategory);
81     ticketPrice = Number(ticketPrice);
82
83     var ticketQty;
84     ticketQty = prompt("Please enter ticket quantity: ");
85     ticketQty = Number(ticketQty);
86
87     var ticketCost;
88     ticketCost = totalAmount(ticketPrice, ticketQty);
89
90     var cardType;
91     cardType = prompt("Enter your Card type. Enter 1 for American Express and 2 for Visa/Mastercard ");
92
93     var surchargeRate = surRate(cardType);
94
95     var validQty = validateQty(ticketQty);
96
97     surcharge = surchargeAmount(ticketCost, surRate(cardType));
98
99     finalCost = surcharge + ticketCost;
100
101     console.log(cardType);
102     console.log(surcharge);
103
104
105 if (ticketPrice > 0 && validQty && surchargeRate != -1) {
106
107     var beforeSurchargeOut = document.getElementById("beforeSurcharge");
108     var costOut = document.getElementById("amountDue");
109     var priceOut = document.getElementById("pricePerTicket");
110     var seatOut = document.getElementById("seatingArea");
111     var surchargeOut = document.getElementById("surcharge");
112     var validQtyOut = document.getElementById("ticketQty");
113
114     beforeSurchargeOut.innerHTML = "Gross amount: $" + ticketCost.toFixed(2);
115     costOut.innerHTML = "Amount due: $" + finalCost.toFixed(2);
116     priceOut.innerHTML = "Price per ticket: $" + ticketPrice.toFixed(2);
117     seatOut.innerHTML = "Your seating area is: " + seatingAreaCategory;
118     surchargeOut.innerHTML = "Card fee: $" + surcharge.toFixed(2);
119     validQtyOut.innerHTML = "Number of tickets ordered: " + ticketQty;
120
121 }
122
123 else {
124     if (ticketPrice == 0){
125         var seatingErrorOut = document.getElementById("seatingArea");
126         seatingErrorOut.innerHTML = seatingAreaCategory + " is not a valid seating area category. Please try again.";
127     }
128     if (validQty == false) {
129         var qtyErrorOut = document.getElementById("ticketQty");
130         qtyErrorOut.innerHTML = "Ticket quantity must be between 1 and 20. Please try again";
131     }
132     if (surchargeRate != 0.01 && surchargeRate != 0.02) {
133         var rateErrorOut = document.getElementById("surcharge");
134         rateErrorOut.innerHTML = "Invalid credit card type. Please enter 1 for American Express or 2 for Visa/Mastercard";
135     }
136 }
137 }
138
139 window.onload = init;

```