USER INPUT & CONDITIONAL STATEMENTS

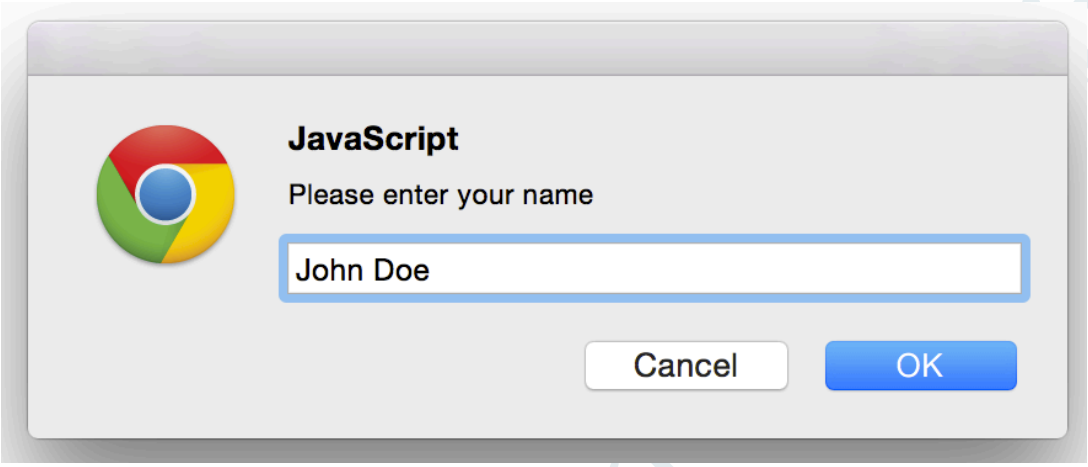
Assignment # 8-11

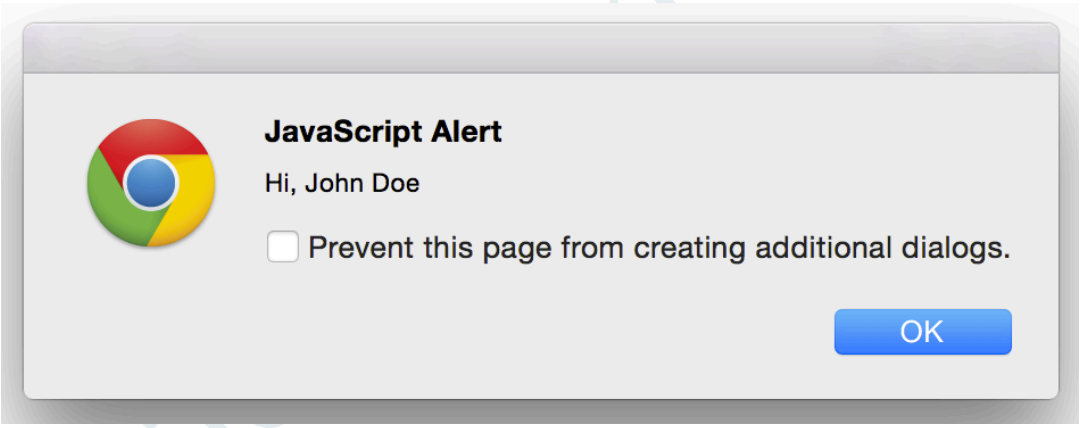
JAVASCRIPT

MODULE A - Mobile & Cloud Computing

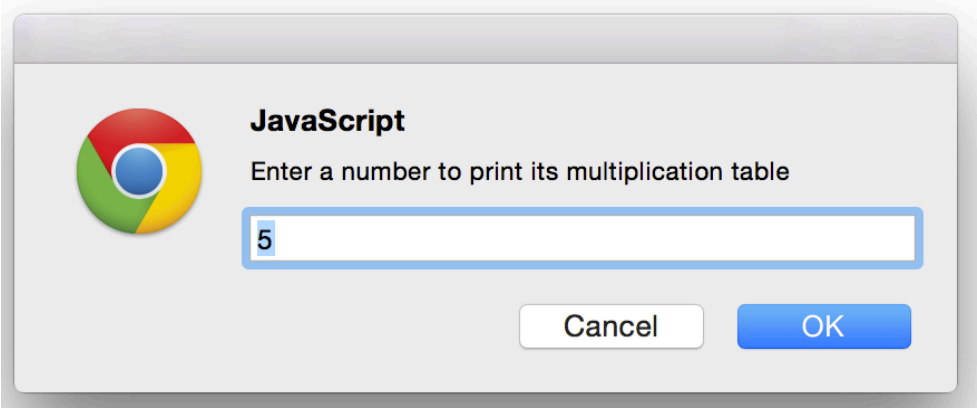
| CONCATENATING TEXT STRINGS | PROMPTS | IF STATEMENTS | COMPARISON OPERATORS |

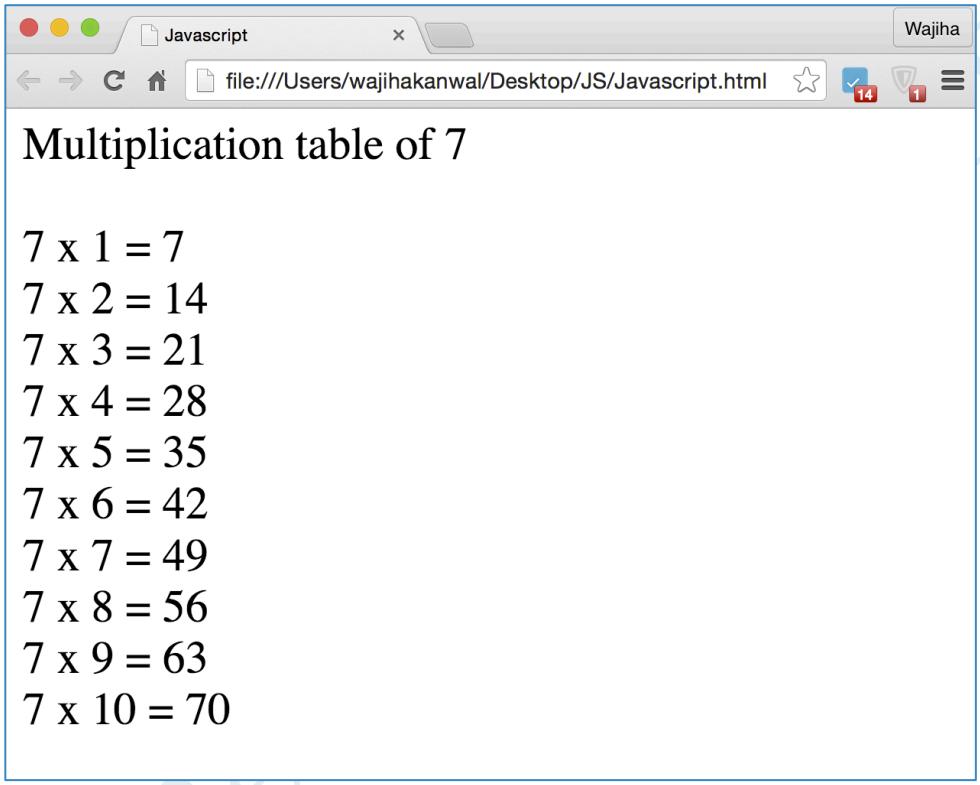
1. Write a program that takes input a name from user & greet the user like this:



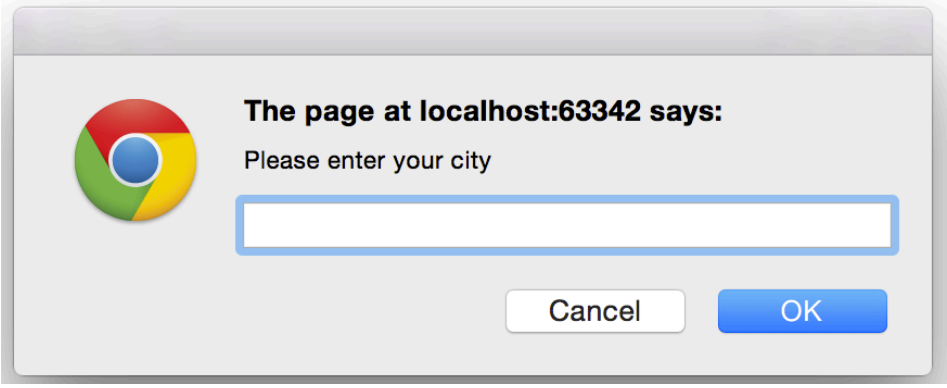


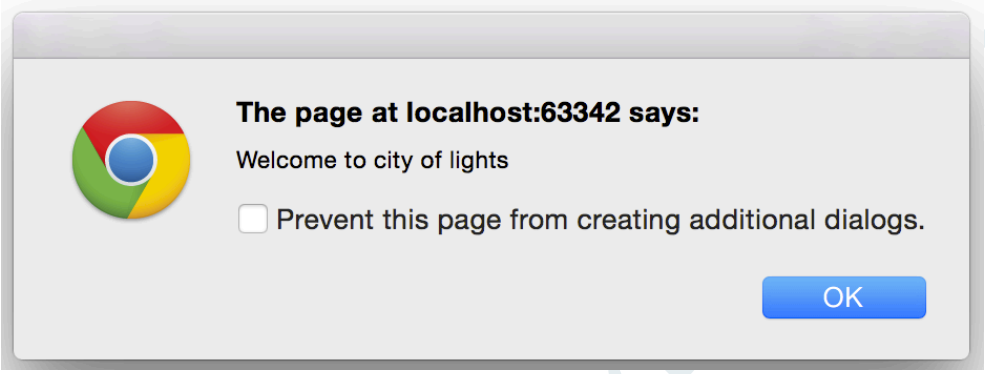
2. Write a program to take input a number from user & display it's multiplication table on your browser. If user does not enter a new number, multiplication table of 5 should be displayed by default.





3. Write a program to take “city” name as input from user. If user enters “Karachi”, welcome the user like this: “Welcome to city of lights”





4. Write a program to take "gender" as input from user. If the user is male, give the message: Good Morning Sir. If the user is female, give the message: Good Morning Ma'am.

5. Write a program to take input color of road traffic signal from the user & show the message according to this table:

Signal color	Message
red	vehicles must stop
yellow	vehicles should get ready to move
green	vehicles can move now

6. Write a program to take input max age & current age from user. If the current age is less than or equal to max age, show

the message “You are welcome”

7. Write a program to take input remaining fuel in car (in litres) from user. If the current fuel is less than 0.25litres, show the message “Please refill the fuel in your car”

8. Run this script, & check whether alert message would be displayed or not. Record the outputs.

   a.
```
var a = 4;
if (++a === 5){
    alert("given condition for variable a is true");
}
```

   b.
```
var b = 82;
if (b++ === 83){
    alert("given condition for variable b is true");
}
```

   c.
```
var c = 12;
if (c++ === 13){
    alert("condition 1 is true");
}
if (c === 13){
    alert("condition 2 is true");
}
if (++c < 14){
    alert("condition 3 is true");
}
if(c === 14){
    alert("condition 4 is true");
}
```

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d.
```
var materialCost = 20000;
var laborCost = 2000;
var totalCost = materialCost + laborCost;
if (totalCost === laborCost + materialCost){
    alert("The cost equals");
}
```

e.
```
if (true){
    alert("True");
}
if (false){
    alert("False");
}
```

f.
```
if("car" < "cat"){
    alert("car is smaller than cat");
}
```

9. Write a program to take input the marks obtained in three subjects & total marks. Compute & show the resulting percentage on your page. Take percentage & compute grade as per following table:

Percentage %	Grade	Remarks
Greater than or equal to 80	A-one	Excellent
Greater than or equal to 70	A	Good
Greater than or equal to 60	B	You need to improve
Less than 60	Fail	Sorry

Show the total marks, marks obtained, percentage, grade & remarks like:

Marks Sheet

Total marks : 300
Marks obtained : 219
Percentage : 73%
Grade : B
Remarks : You need to improve

10. Write a program to implement checkout process of a shopping cart system for an e-commerce website. Take input from users, the following:
    a. Name of item1
    b. Name of item2
    c. Price of item 1
    d. Price of item 2
    e. Ordered quantity of item 1
    f. Ordered Quantity of item 2
    g. Shipping charges

    Compute the total cost. If the total cost is above 2000 PKR , offer them 10% discount & show the receipt in your browser.

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Shopping Cart

Price of T-Shirt is 1000
Quantity of T-Shirt is 2
Price of USB Flash drive is 700
Quantity of USB Flash drive is 3

Shipping Charges 250

Total cost of your order is 4350 PKR
Discounted Price is 3915 PKR

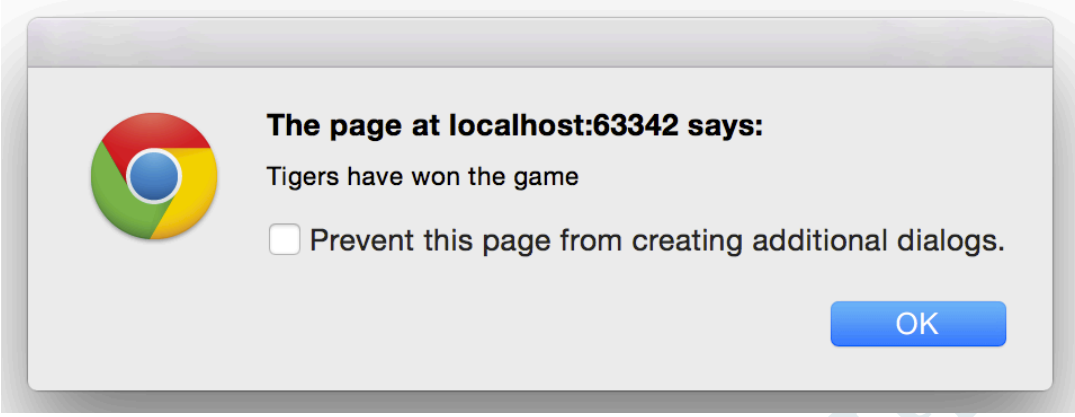
11. **Guess game:**

Store a secret number (ranging from 1 to 10) in a variable. Prompt user to guess the secret number.

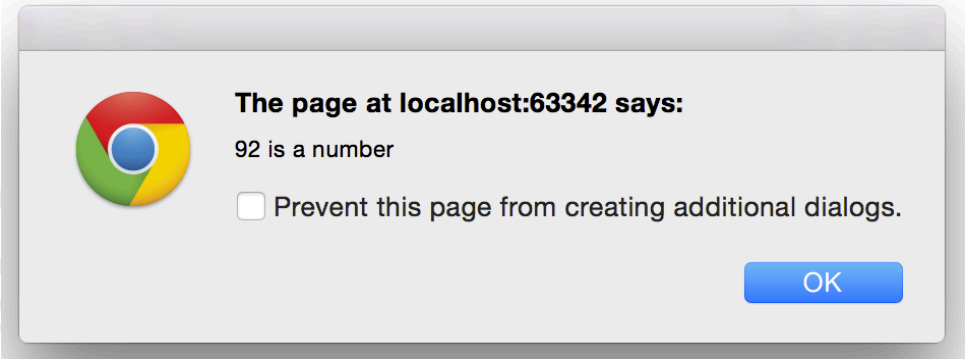
a. If user guesses the same number, show "Bingo! Correct answer".
b. If the guessed number ±1 is the secret number, show "Close enough to the correct answer".

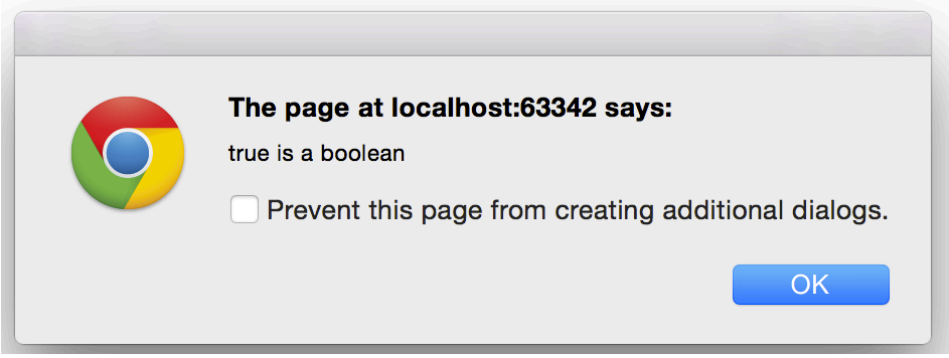
12. Write a program to check whether the given number is divisible by 3. Show the message to the user if the number is divisible by 3.

13. Names & Total scores of two teams are taken as input. Write a program that shows which team has won the game or show if there is a tie. (Team A or Team B)



14. Take a string, a number and a Boolean in three variables. Write a program that checks the type of variables & responds accordingly. Like :





15. Write a program that checks whether the given input is an even number or an odd number.

16. Weather in Karachi nowadays is too cool, write a program that takes temperature as input and shows a message based on following criteria

    a. T > 40 then "It is too hot outside."
    b. T > 30 then "The Weather today is Normal."
    c. T > 20 then "Today's Weather is cool."
    d. T > 10 then "OMG! Today's weather is so Cool."

17. Write a program to create a calculator for +,-,*, / & % using if statements. Take the following input:

    a. First number
    b. Second number
    c. Operation (+, -, *, /, %)

    Compute & show the calculated result to user.

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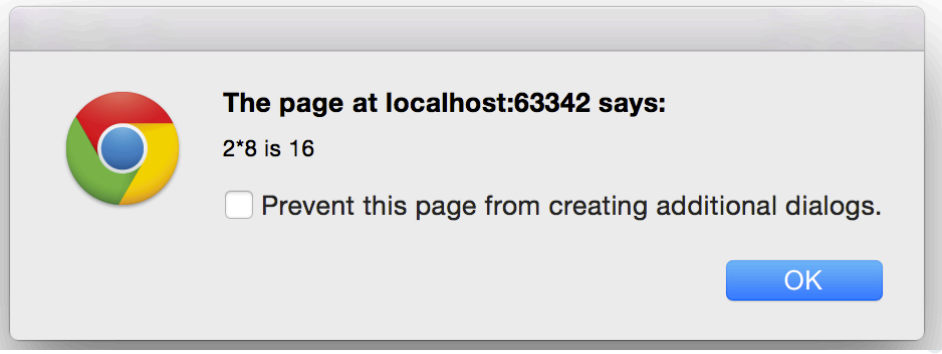

18. Write a program that takes user input day name. If the day is Monday, Tuesday, Wednesday, Thursday or Friday, then show "It's a week day". If the day is Saturday then show "It's weekend". If the day is Sunday then show "Yay! It's a holiday".

19. Write a program that takes input user's score, if it's greater than 50, say "You are passed". Otherwise, show "Try again!"

20. Write a program that:

    a. takes 2 numbers.
    b. tells whichever number is the greater (higher) number.
    c. tells if they are equal

    Show the output to make sure it works (e.g. "The greater number of 5 and 10 is 10.").

21. **The Translator:**

    Write a program that:

    a. takes 1 input, a language code (e.g. "es", "de", "en")
    b. tells "Hello, World" for the given language, for atleast 3 languages. It should default to returning English. (Hint: use translate.google.com to check the translation of hello world in different languages)

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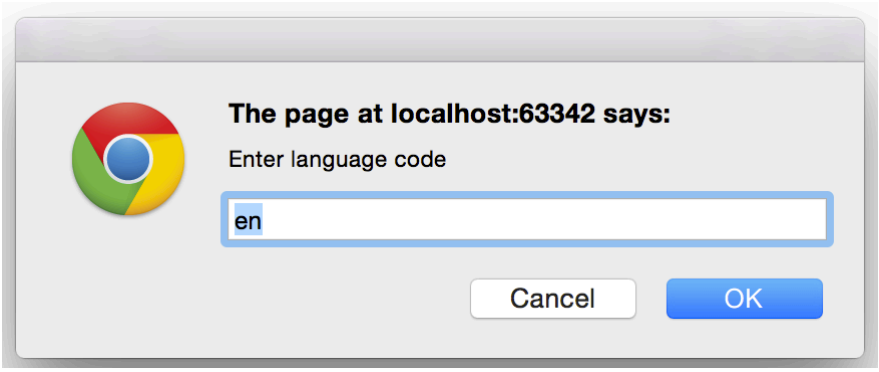
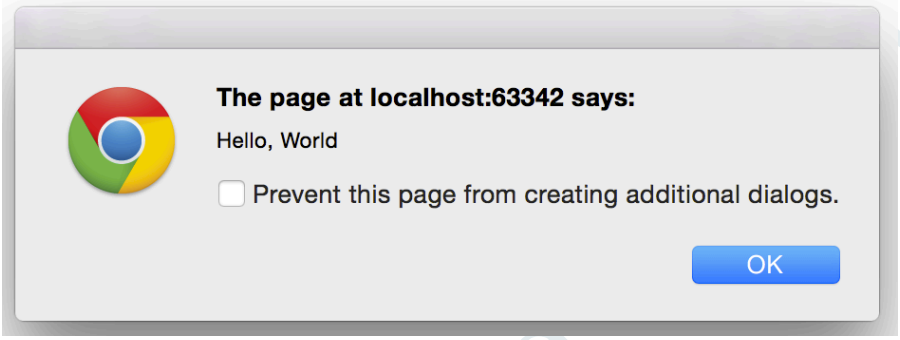
Show the result to make sure it works.

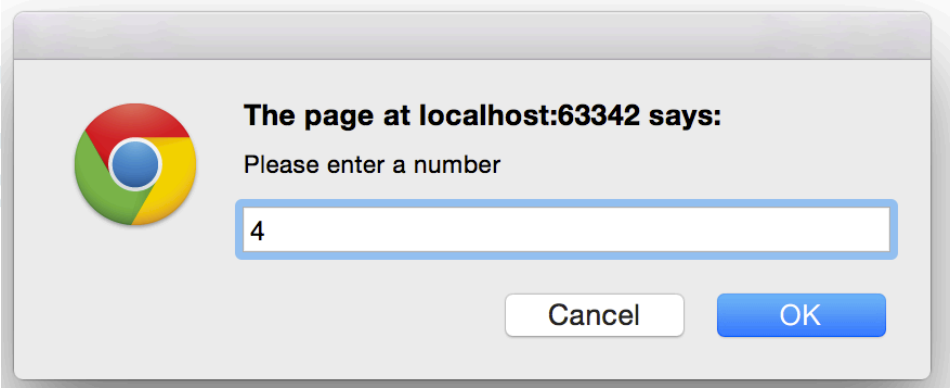


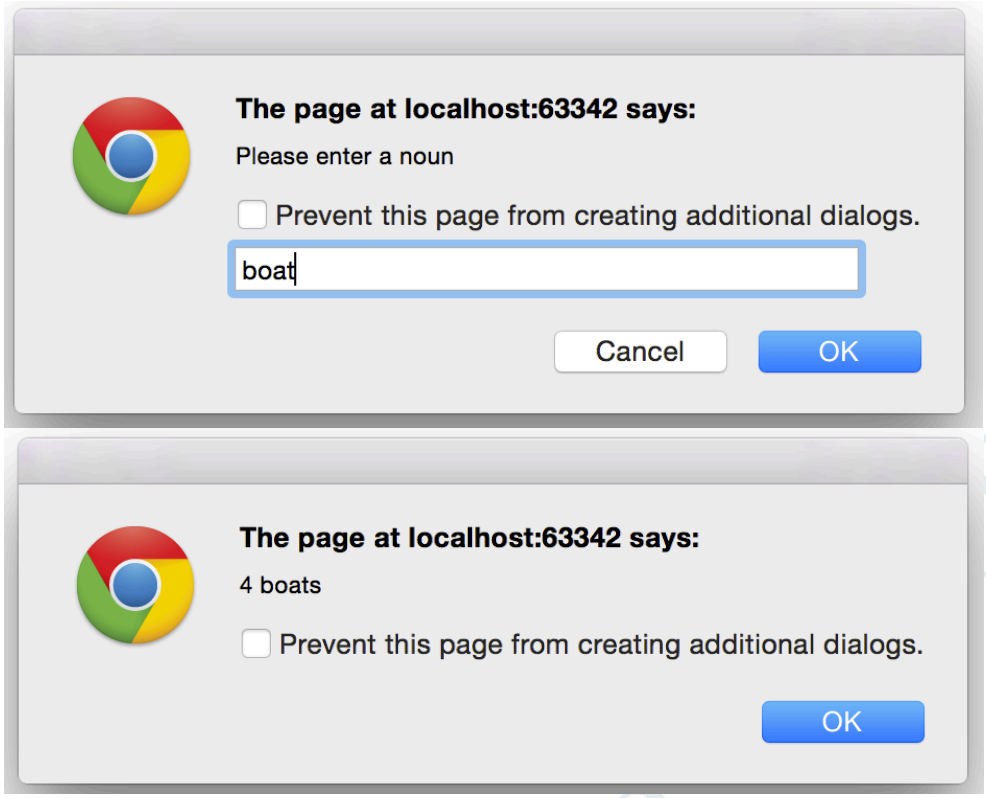


22. Write a program to take input a number & tell whether it's a positive or negative number.

23. **The Pluralizer:** Write a program that:
    a. takes 2 inputs, a noun and a number.
    b. tells the number and pluralized form, like "5 cats" or "1 dog".

    Run the program for a few different inputs and show the result to make sure it works.





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