## REVIEW

2. What do you call a a specific instruction designed to do a task?

Command
Process
Task
Instruction

None of the above

3.	In computer science, algorithm refers to a special method useable by a computer for solution of a problem.
	<ul><li>True</li></ul>
	○ False
4	
4.	<ol> <li>Which of the following is incorrect?</li> <li>Algorithms can be represented:</li> </ol>
	Algorithms can be represented.
	as pseudo codes
	as syntax
	as programs
	as flowcharts
	None of the above
	Medical Banking
	Education
	Space Exploration
	None of the above
	What is the metric for analyzing the worst-case scenario of algorithms in terms of scalability and efficiency called?
	Parallelism
	Big Data
	Recursion
	Big O Notation

7. Which of the following	g statements IS TRUE	about Computer Scientists?
They design sof	tware but not compu	ters
<ul><li>They apply inno</li></ul>	ovation and expertise	to complex problems
They are just pr	ogrammers	
All of the above		
None of the abo	ove	
8. The act of making sor  Engineering Abstraction Automation Simulation	mething happen on it:	s own, i.e. without any external help or human interference, is called?
✓ Challenge #2		11 / 11 Questions Answered
□ Your Notes (Editable)	⁵≣ Your Answers	
1. Which of the following	ing is not a data type?	
Symbolic Data	а	
Alphanumerio	Data	
Numeric Data		
Numeric Data		
None of the a	bove	
	They design sof  They apply inno They are just pr All of the above None of the abo  8. The act of making sor Engineering Abstraction Automation Simulation  Challenge #2  Your Notes (Editable)  1. Which of the following Alphanumeric Numeric Data Numeric Data	Engineering

2. What are the entities whose values can be changed called?
Constants
<ul><li>Variables</li></ul>
Modules
○ Tokens
None of the above
3. Which of the following is not an element of a programming language?
File I/O
Functions
<ul> <li>Environment setup</li> </ul>
Basic syntax
None of the above
4. Which of the following best represents the set of features that should be present in a programming language for it to be useful in algorithm implementation?
Data structures, variables, abstract data types and binary digits
Assignment operators, arithmetic operators and logical operators
<ul> <li>Ability to execute instructions one after the other, statements for expressing conditional logic and functionality to repetitively execute instructions</li> </ul>
Strings, integers, lists and dictionaries

5.	Before source code can be compiled, it has to be
	parsed
	saved in a separate file
	viewed in a command prompt
	○ capitalise
	None of the above
6.	Which of the following programming languages requires a compiler?
	Python
	<ul><li>Java</li></ul>
	○ PHP
	Lisp
	None of the above
7.	Which of the following is the best example of automatic type conversion in JavaScript?
	"5" + cats = 5 cats
	"5" + "cats" = "5 cats"
	• 5 + "cats" = "5 cats"
8.	Ask user for a number, ask user for another number, multiply the two numbers, print resultWhat do you cal this set of instructions?
	○ PHP
	An Algorithm
	A Class
	A compliler

	9. What is object-oriented programming?	
	A type of programming involving a structured method of creating programs	
	A type of programming not in use anymore	
	A type of programming involving data types representing data structures	
	A type of programming using only numbers	
	None of the above	
	10. How tdo you append a value to an array of Java Script?	
	arr[arr.length+1] = new Arrays()	
	arr[arr.length*1] = value	
	arr[arr.length] = value	
	arr[arr.length-1] = value	
	<ul> <li>11. Beginner programmers should start with a development environment</li> <li>True</li> <li>False</li> </ul>	
•	Challenge #3	/ 4 Tests
	Your Notes (Editable) {} Solution	
	<pre>def number_game(x,y):</pre>	
	if x > y: return [n for n in range(y,x) if n%2==0]	
	return [n for n in range(y,x) if n%2==0] elif y==x:	
	return []	
	else:	
	return [n for n in range(x,y) if n%2!=0]	

Challenge #4		
■ Your Notes (Editable)	₹ Your Answers	
1. Which of the followi Programming?	ng choices contains t	the terms that are most closely associated with Object Oriented
Abstraction, Ir	nheritance, Polymorp	ohism, Functions
<ul><li>Polymorphism</li></ul>	n, Methods, Encapsu	lation, Inheritance
Encapsulation	, Assignments, Polyr	morphism, Abstraction
Methods, Assi	gnments, Encapsulat	tion, Abstraction
None of the ab	oove	
Java C++ SmallTalk Kotlin	ourely object oriente	ed programming language developed?
3. Which Feature of OC		le reusability?
Abstraction		
Encapsulation	I	
<ul><li>Inheritance</li></ul>		

	Which among the following best describes polymorphism?
	4,3,5,1
	<ul><li>1,2,3,5</li></ul>
	2,3,5,4
	5, 2, 4, 1
	None of the above
5.	Which feature can be implemented using encapsulation?
	Vehicle -> Car -> Truck
	Pet -> Animal -> Dog
	Person -> Employee -> Manager
	User -> Admin -> Guest
6	Consider the following code snippet, What is the output of the following code?
$\mathbf{O}_{\bullet}$	
<b>0.</b> \	
0.	<pre>var o = new F();</pre>
0.	
0.	<pre>var o = new F();</pre>
0.	<pre>var o = new F(); o.constructor === F</pre>
0.	<pre>var o = new F(); o.constructor === F</pre>
0.	<pre>var o = new F(); o.constructor === F  0     false</pre>

7. Which definition best describes an object?
Instance of a class
Instance of itself
Child of a class
Overview of a class
8. Which of these is a valid interpretation of the expression foo = X()?
Create an object foo of class X
Assign variable foo an instance of X
Set foo to an instance of X
A and B
A, B and C
9. The code class X(object): definit(self, J) can be interpreted as:
Make a subclass X of class object that defines a constructor method that takes self and J as parameters
Make a class X of object with a constructor method that has as parameters self and J
<ul> <li>Make a class X that inherits from an object class and has defined a constructor method that accepts as arguments the values of self and J</li> </ul>
All of the above
None of the above

10.	What does single-level inheritance mean?
	A subclass derives from a class which in turn derives from another class
	A single superclass inherits from multiple subclasses
	A single subclass derives from a single superclass
	Multiple base classes inherit a single derived class

1. What is the output of the following piece of code?

```
class A:
def str(self):
  return '1'
class B(A):
def init(self):
  super().init()
class C(B):
def init(self):
  super().init()
def main():
obj1 = B()
obj2 = A()
obj3 = C()
print(obj1, obj2,obj3)
main()
```

- O 111
- 123
- (1, 1, 1, 1,
- An exception is thrown

```
■ Your Notes (Editable)

                      {} Solution
                                   Your Tests
    import datetime
 2
    class user:
 4
        def init (self, name, lastloggedIn = None):
 5
            self.name = name
 6
            self.loggedIn = False
            self.lastloggedIn = lastloggedIn
 8
 9
        def name(self):
10
            return self.name
11
12
        def name(self, value):
13
            self.name = value
14
15
        def is logged in(self):
16
            return self.loggedIn
17
18
        def last logged in at(self):
19
            return self.lastloggedIn
20
21
        def log in(self):
22
            self.loggedIn = True
23
            self.lastloggedIn = datetime.datetime.utcnow().strftime("%Y-%m-%d
    %H:%M:%S")
24
25
        def log out(self):
26
            self.loggedIn = False
27
28
        def can edit(self, comment):
29
            if comment.author.name == self.name:
30
                 return True
31
            else:
32
                 return False
33
34
        def can delete(self, comment):
35
            return False
36
37
    # def to_string(self):
38
    # pass
```

•

Challenge #5

```
39
40
    class moderator(user):
41
        def init (self, name):
42
            user.__init__(self, name)
43
44
        def can delete(self, comment):
45
            return True
46
47
48
49
    class admin(moderator):
50
        def init (self, name):
51
            moderator. init (self, name)
52
53
        def can edit(self, comment):
54
            return True
55
56
57
    class comment:
58
        def init (self, author, message, replied to = None, createdAt = None):
59
            self.createdAt = datetime.datetime.now().strftime("%Y-%m-%d %H:%M:%S")
60
            self.author = author
61
            self.message = message
62
            self.replied to = replied to
63
64
        def author(self):
65
            return self._author
66
67
        def author(self, value):
68
            self.author = value
69
70
        def message(self):
71
            return self.message
72
73
        def message(self, value):
74
            self.message = value
75
76
        def created at(self):
77
            return self.createdAt
78
79
        def replied to(self):
80
            return self.replied to
81
        def replied to(self, value):
82
```

```
83
               self.replied_to = value
84
85
          def to_string(self):
86
               if self.replied_to == None:
87
                    return self.replied_to + " by " + self.author.name
88
         Challenge #6
                                                                                  11 / 11 Questions Answered

■ Your Notes (Editable)

                           誓 Your Answers
   1. JavaScript can be written
            Directly into JS file and included into HTML
            Directly on the server page
            Directly into HTML pages

    All of the mentioned

   2. Which of these best describes an array?
        A data structure that shows a hierarchical behavior
            Container of objects of mixed types

    Container of objects of similar types

            All of the mentioned
```

3. Of the following statements, which ones can be said to be TRUE?
1. The time complexity of all single statements is constant
2. According to the Big O Notation, the time complexity of some statements can be said to be logarithmic
3. Time complexity can only be expressed by using the Big O notation
4. Time complexity can be expressed as a differential equation
5. The time complexity of an algorithm can vary over time
6. Quadratic time complexity can be expressed as a quadratic equation
1,3&5
O 2 & 4
5,2 & 6
O 2 & 6
<ul><li>2,4&amp;6</li></ul>

<b>4.</b> In relation to both primitive and complex data structures, what CANNOT be said to be TRUE?	
<ol> <li>Primitive data structures are used to represent semantically independent values whilst complex of structures are NOT</li> </ol>	lata
2. Complex data structures are used to represent interdependent values	
3. Complex data structures are complicated to use whilst basic data structures are simple to use	
4. Basic data structures can be used out of the box in a programming language	
5. Complex data structures should only be used with a large data set	
○ 1 & 3	
• 4&2	
2 & 3	
3 & 5	
5 & 1	
5. Entries in a stack are "ordered". What is the meaning of this statement?	
A collection of stacks is sortable	
Stack entries may be compared with the '<' operation	
The entries are stored in a linked list	
There is a Sequential entry that is one by one	
None of the above	

6.	You are designing an algorithm that ranks website pages by relevance according to the number of times they are viewed by users. Which data structure would be the most useful and efficient for you to use?
	A hash table because data would be efficiently searched and retrieved
	A stack because the website pages would need to be popped and pushed systematically from the ranking list
	A graph because Elizabeth needs data relating to how webpages are connected to each other and how many times they were viewed
	A sorted array because all the data relating to web pages needs to be sorted in a ranking order
	None of the above
7.	What is the efficiency of an algorithm dependent on?
	The time taken by the algorithm and memory consumption
	The data structure used and memory consumption
	The time taken by the algorithm and data structure used
	None of the above
	● A & B

- 8. You are creating an inventory management system. You want the following features:
  - 1. The name of every item should be linked to its stock level and expiry date
  - 2. The order of the items in the database is not a priority
  - 3. You need to be able to easily lookup data for each item

Which is the best representation of the optimal data structure you should use to manage the data in this application?

```
Canned Soup , [45 , 16/12/2016]

'Canned Soup' '45' '16/12/2016'

('Canned Soup': [45, '16/12/2016'] }

'Canned Soup, 45, 16/12/2016'

['Canned Soup' , 45 , 16/12/2016 ]

def inventory(item, stock_level, expiry)

{'Canned Soup': 45, 'Canned Soup': 16/12/2016 }
```

9. What is the output fo the code below?

```
numberGames = {}
numberGames[(1,2,4)] = 8
numberGames[(4,2,1)] = 10
numberGames[(1,2)] = 12
sum = 0
for k in numberGames:
    sum += numberGames[k]
print(len(numberGames) + sum)
```

- 0 8
- \_\_\_\_\_12
- **24**
- 30
- 33

	10. Which of the following data structures can be used with the "in" operator to chec structure?	k if an item is in the data:				
	list					
	set					
	Dictionary					
11	All the above					
	None of the above					
	11. Which of these best describes an array?					
	A data structure that shows a hierarchical behavior					
	<ul><li>Container of objects of similar types</li></ul>					
	Container of objects of mixed types					
	All of the mentioned					
•	✓ Challenge #7	5 / 5 Tests				
	∀our Notes (Editable)					
•	<pre>1 def digitize(n): 2    my_list = [int(d) for d in str(n)] 3    return my_list</pre>					
•	✓ Challenge #8	8 / 8 Questions Answered				
	∀our Notes (Editable)					

1. What statement BEST describes why the Big-O notation is a very useful way of analyzing algorithm complexity?
<ul> <li>It is very easy to understand</li> <li>It focuses on the performance of the algorithm itself, not of the hardware used to run the algorithm</li> <li>It gives the average case running time of an algorithm</li> <li>It can be used for more than analyzing algorithms</li> </ul>
<ul> <li>Which on the following is a Space Complexity</li> <li>O(1)</li> <li>O(n)</li> <li>O(n log(n))</li> <li>O(m)</li> </ul>
O(mn)

3. Look at this code snippet which is supposed to print a series of numbers to the screen.

Python

```
a = 1
while a:
    a += 23
    print a
```

Javascript

```
a = 1
while(a){
  a += 23;
  console.log(a)
}
```

What is wrong with this code snippet and how would you improve it?

- a is being incremented by 23, it needs to be incremented by 1 instead
- a was initialized to 1. It should have been initialized to 0
- Printing a after every loop is inefficient. Print after the loop has ended.
- The loop won't end. It needs to have a stopping condition

Which of the following is not true about comparison based sorting algorithms?
The minimum possible time complexity of a comparison based sorting algorithm is O(nLogn) for a random input array
Any comparison based sorting algorithm can be made stable by using position as a criteria when two elements are compared
Counting Sort is not a comparison based sorting algorithm
Heap Sort is not a comparison based sorting algorithm.

5. Look at this code snippet:

Python:

```
def fun(n):
    count = 0
    while(n>0):
        n = n/2
        j = 0
        while(j < n):
        j += 1
        count += 1

        print(count)
    return count</pre>
```

Javascript:

```
function fun(n){
 count = 0;
 while(n>0){
   n = n/2
   j = 0
   while(j < n){
     j += 1;
   }
   count += 1;
   console.log(count)
  }
```

	return count;
	What is the running time of this algorithm?
	O(N)
	O(NLog(N))
	<ul><li>O(N^2)</li></ul>
	O(1)
6.	Which of the following does the Big O notation denote?
	Average case run time
	Worst case run time
	Best case run time
	Abstract case run time
7.	You want to sort the following list using the <b>bubble sort algorithm</b> [14,33,27,35,10]. What would be the result of the operation?
	[5,7,13,15,17]
	[35,33,27,14,10]
	<ul><li>[10,14,27,33,35]</li></ul>
	[14,10,33,35,27]
	The array cannot be sorted using the bubble sort algorithm

```
8. Which of the following is not O(n^2)?
    (15<sup>10</sup>) n + 12099
     В
    n^1.98
    n^3 / (sqrt(n))
    (2^20) n
      (15^10) * n + 12099
        n^1.98
       n^3 / (sqrt(n))
        (2^20) * n
       None of the above
        Challenge #9
                                             100%
                                                                                           2/2 Tests

■ Your Notes (Editable)

                        {} Solution
                                       Your Tests
    def my_sort(my_list):
         even list = []
         old_list = []
         for number in my_list:
 4
              if isinstance(number, int):
                  if number % 2 == 0:
 6
                       even list.append(number)
 8
                  else:
                       old_list.append(number)
 9
10
         even list.sort()
11
         old list.sort()
12
         return old list + even list
        Challenge #10
                                                                              9 / 9 Questions Answered

    □ Your Notes (Editable)
```

	ay that you have an recursive method, compute(). Is it always possible to write a method that implements ompute() with a one line formula?
	Yes
	Usually, but not always.
	○ Almost never
	○ No
2. W	hich of these instances BEST describes a scenario that will require you to use recursive functions?
	Printing out numbers from one to ten
	When you want to speed up your program
	Arranging elements of a nested list in a particular order
	None of the above
	ecursive functions are considered to be elegant and clear but that comes with underlying costs. Which of these et of statements is the correct list of disadvantages of using recursive functions?
	They support tail-optimisation, add clarity and use more space
	They will always throw Stack Overflow Exceptions when processing big chunks of data, are slower than non-recursive functions and increase space requirements
	They are not-readable, their performance is slow when tail optimisation is performed
	None of the above





	Say that you have a recursive method, recurrsive() . Is it always possible to write an iterative version of recurrsive()?				
	<ul><li>Yes</li></ul>				
	Usually, but not always.				
	Almost never				
	○ No				
5.	In general, in a recursive and non-recursive implementation of a problem (program) :				
	Both time and space complexities are better in recursive than in non-recursive program.				
	Both time and space complexities are better in non-recursive than in recursive program				
	• Time complexity is better in recursive version but space complexity is better in non-recursive version of the program.				
	<ul> <li>Space complexity is better in recursive version but time complexity is better in non-recursive version of the program.</li> </ul>				







6. Consider this function: def factorial(number): if number == 0: return 1; return number \* factorial(number-1) What kind of recursion does it use? Tail recursion Binary recursion Augmenting recursion None of the above 7. Which of the following statements is true? Recursion uses more memory compared to iteration Recursion is always better than iteration Recursion uses less memory compared to iteration Iteration is always better and simpler than recursion 8. Do you need an IF-ELSE statement to prevent infinite recursion? Yes No Sometimes

```
9. Consider a definition ofmethod():
      method(0,N) = N
      method(P,Q) = mystery(P-1, Q+1)
      0
      6
        Challenge #11
                                            100%
                                                                                          5 / 5 Tests

    □ Your Notes (Editable)

                        {} Solution
                                      Your Tests
    def power(a,b):
 2
         ans = a
         if b == 0:
             return 1
 4
         while b > 1:
             ans *= a
 6
             b -= 1
 8
         return ans
        Challenge #12
                                            100%
                                                                                          6 / 6 Tests

    □ Your Notes (Editable)

                        {} Solution
                                      Your Tests
    def count changes(money, coins, i=0):
 2
         if money == 0:
             return 1
 3
         elif money < 0:</pre>
 4
             return None
 6
         else:
             s = 0
 8
             for i in range(i, len(coins)):
                  coin = coins[i]
 9
```







```
10
                   if money - coin < coin:</pre>
11
                        c = count changes(money - coin, coins, i+1)
12
                   else:
13
                        c = count_changes(money - coin, coins, i)
14
                   if c:
15
16
                        s += c
17
              return s
18
     def count_change(money, coins):
19
20
          return count changes(money, coins)
         Challenge #13
                                                                                  6 / 6 Questions Answered

■ Your Notes (Editable)

                          誓 Your Answers
 1. Which of the following is the correct way to initialize a new Git repository?
          git add.
       git init
          git commit
          git start
 2. You can type git status at any point while in a git controlled directory to check the status of your files.
       True
       False
```

3. Which of the following commands will stage your entire directory and every non-empty directory inside your current directory?
git status all git commit all
● git add .
git stag
4. We've just created a new file called index.html. Which of the following will stage this one file so we can commit it?
git status index.html
git add new
git add index.html
git commit index.html
5. After staging a file, How would you commit this with the message "adding new authors to index"
git commit "adding new authors to index"
git commit -m "adding new authors to index"
git commit .
git commit message
6. Which of the following commands will create a new branch called brand_new and also check it out?
git checkout -b brand_new
git branch brand_new
git checkout brand_new
None of the above





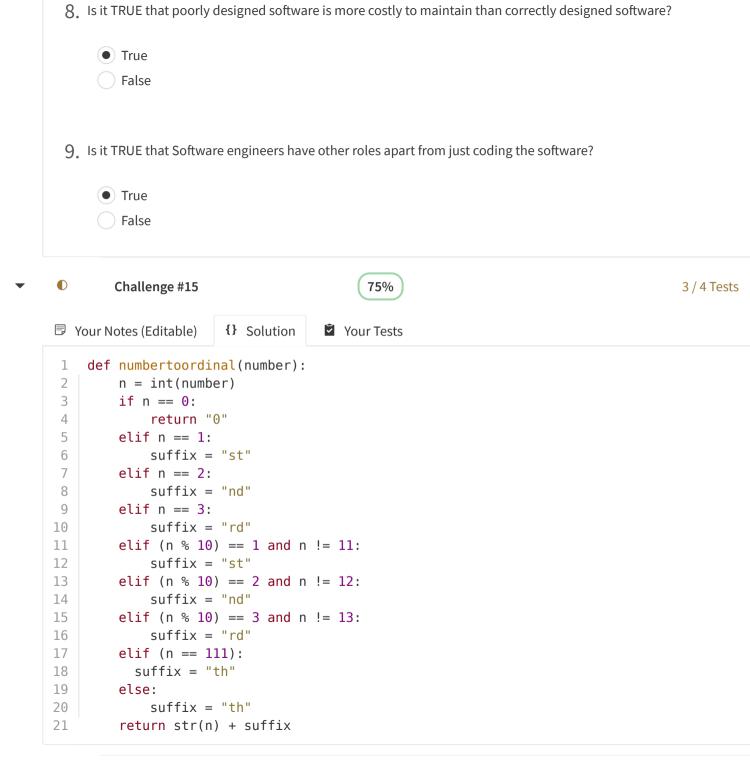


4.	which of the following statements best describes evolutionally/breauboard prototyping:
	Building multiple functional prototypes of the various sub-systems then integrating all the available prototypes to form a complete system
	<ul> <li>Building functional prototypes with minimal functionality at the beginning which forms the basis of future prototypes on top of which the system is built</li> </ul>
	A prototype is built using little effort with the minimum requirements of the system, and once the requirements are understood, the actual system is developed based off the prototype
	None of the above
5.	Is it true that all software development process models have exactly the same phases?
	Yes
	○ No
	Sometimes
6.	Good software must be efficient, adaptable and cheap
	True
	○ False
7.	Which of the following software development process models is most popularly used in industries?
	Waterfall model
	Spiral Model
	○ V Model















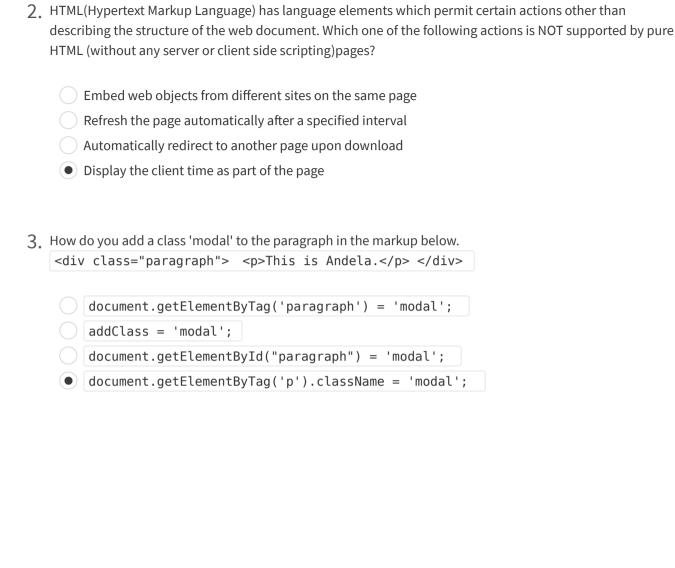
<b>□</b> You	r Notes (Editable)	≅ Your Answers		
1.	Suppose you type w	ww.google.com in	nto your browser address bar and hit ENT	ER, what happens?
	The address is	resolved to an IP add	dress	
	The address is	converted to binary		
	The address is			
	The address is	sent to the processo	r which then resolves it to Google	
2.	What do WI-FI netwo	orks use to transmit c	lata?	
	○ Infra-red			
	Microwaves			
	UV-Light			
	Radio waves			
3.	Which of the followir	ng ports is wrongly m	natched?	
	80::HTTP			
	• 443::SMTPS			
	23::Telnet			
	25::SMTP			
4.	Which of the followir	ng status codes are N	OT correctly matched?	
	404 - Page not	found		
	200 - OK			
	201 - Not author	orized		
	301 - Moved pe	ermanently		

(1)

5. Which of the following is NOT a HTTP verb?
GET
POST
ADD
DELETE
6. Which of the following statements is TRUE?
The REST protocol uses XML inside of HTTP commands.
The REST protocol uses HTTP verbs
The SOAP protocol uses HTTP verbs
The SOAP protocol is an extension of the REST protocol
7. Which of the following statements best describes MIME types?
MIME types are format type identifiers for content transmitted over the internet
MIME types are sound format types
MIME types are communication protocols
MIME types are hardware specifications
8. A host computer that is capable of providing information to others is known as a server. Which of the following does NOT describe a client?
Receives and responds to requests from remote computers
Sends requests to a remote computer
Displays information in a way a user can understand
A computer with a web browser installed

	9. Which of the following	ng best describes HT	TP (Hypertext Transfer Protocol)?
	It is the standa	ard protocol that is us	sed to resolve domain names to IP addresses
	It is the protoc	col that is used to uni	quely identify every resource on the web
	It is the protocol	col responsible for re	questing and transmitting web pages
	This is the ma	in protocol used in th	ne Internet Layer of the TCP/IP Model
	10. What is a protocol, a	as specified in a netw	orking context?
	It is a process	that operates on a sp	pecific layer in a networking model
	It is a rule spe	cifying a standard wa	ay of communicating
	It is an addres	s that uniquely ident	ifies Internet resources
	It is a way tha	t allows accessibility	of the web
•	✓ Challenge #17		28 / 28 Questions Answered
	■ Your Notes (Editable)	¥ Your Answers	
	1. You provide the wro	ng username and pa	ssword, what status code is the browser supposed to return?
	200		
	• 401		
	501		
	503		

(<u>L</u>)







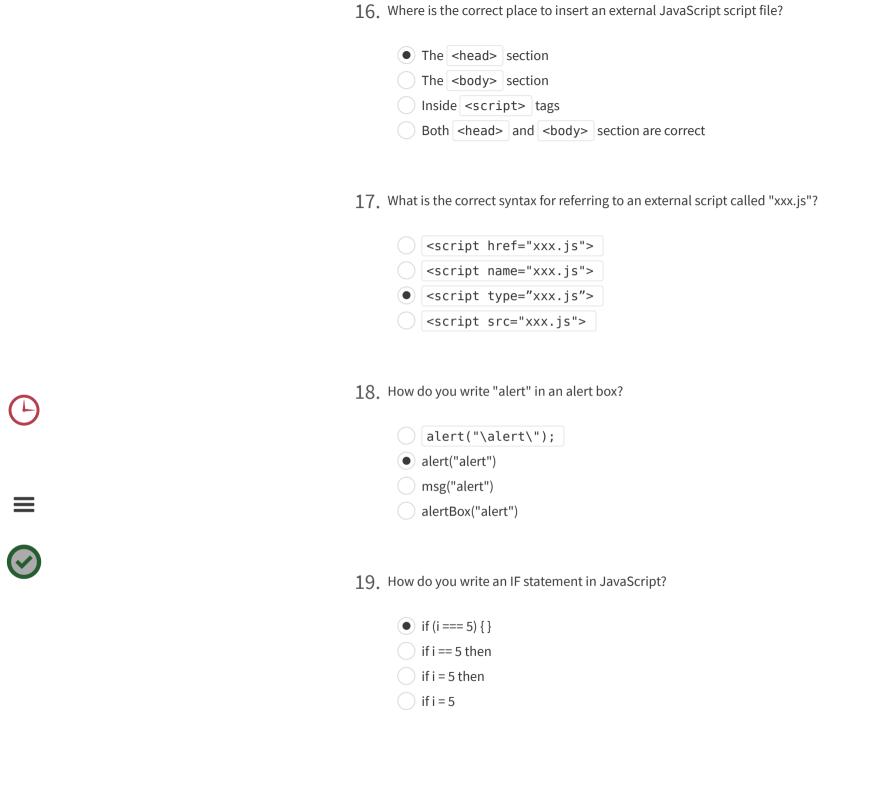


4	Consider the HTML t able definition given below:
	ab
	cd
	ef
	gh
	ik
	The number of rows in each column and the number of columns in each row are:
	(2, 2, 3) and (2, 3, 2)
	(2, 2, 3) and (2, 2, 3) • (2, 3, 2) and (2, 3, 2)
	(2, 3, 2) and (2, 2, 3)

	Which of the following is an advantage of putting presentation information in a separate CSS file rather th in HTML itself?
	The content becomes easy to manage
	Becomes easy to make site for different devices like mobile by making separate CSS files
	CSS Files are generally cached and therefore decrease server load and network traffic.
	All of the above
6.	What is the correct HTML for inserting an image?
	<pre><img alt="MyImage" src="image.gif"/></pre>
	<pre><img alt="MyImage" href="image.gif"/></pre>
	<pre><image alt="MyImage" src="image.gif"/></pre>
	<pre><img alt="MyImage"/>image.gif</pre>
7.	<ol> <li>Which of following statements is/are False?</li> <li>XML overcomes the limitations in HTML to support a structured way of organizing content.</li> <li>XML specification is not case sensitive while HTML specification is case sensitive.</li> <li>XML supports user defined tags while HTML uses pre-defined tags.</li> <li>XML tags need not be closed while HTML tags must be closed.</li> </ol>
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8. What does CSS stand for?
Colorful Style Sheets
Cascading Style Sheets
Creative Style Sheets
Computer Style Sheets
9. What is the correct HTML for referring to an external style sheet?
<pre><stylesheet>mystyle.css </stylesheet></pre>
<pre><style src="mystyle.css"></pre></th></tr><tr><th><pre><link rel="stylesheet" type="text/css" href="mystyle.css"></pre></th></tr><tr><th><pre><link rel="stylesheet" type="text/css" src="mystyle.css"></pre></th></tr><tr><th><pre>10. Which is the correct CSS syntax?</th></tr><tr><th>11. How do you make each character in each word in a sentence have ALL capital letters?</th></tr><tr><th>You can't do that with CSS</th></tr><tr><th>text-transform:capitalize</th></tr><tr><th>text-transform:uppercase</th></tr><tr><th>text-transform:uppercase-first</th></tr><tr><td></td></tr></tbody></table></style></pre>

12. JavaScript is a subset of Java
☐ True
<ul><li>False</li></ul>
13. Which HTML tag are JavaScript scripts written in?
<pre><javascript></javascript></pre>
<pre></pre>
<pre><scripting></scripting></pre>
(js>)
14. How do you display a border like this: The top border = 10 pixels, The bottom border = 5 pixels, The left border = 20 pixels, The right border = 1 pixel? border-width: 10px 1px 5px 20px; border-width: 10px 5px 20px 1px;
border-width:10px 20px 5px 1px;
border-width:5px 20px 10px 1px;
15. When writing CSS, how do you select an element with id "demo"?
demo
demo
• #demo
*demo



	How can you add a comment in a JavaScript?
	This is a comment
	'This is a comment
	<pre>//This is a comment</pre>
	( ' ' This is a comment
21.	What is the correct way to write a JavaScript array?
	<pre>var colors = ["red", "green", "blue"]</pre>
	<pre>var colors = (1:"red", 2:"green", 3:"blue")</pre>
	<pre>var colors = "red", "green", "blue"</pre>
	<pre>var colors = 1 = ("red"), 2 = ("green"), 3 = ("blue")</pre>
	What does the following mean? <=
	<ul> <li>equals less</li> <li>less than or greater than</li> <li>less than or equal to</li> <li>None of the above</li> </ul>
	equals less less than or greater than less than or equal to
	equals less less than or greater than less than or equal to None of the above
	equals less less than or greater than less than or equal to None of the above  If I concatenate '7' and '10', what will the result be?
	equals less less than or greater than less than or equal to None of the above  If I concatenate '7' and '10', what will the result be?

24.	What is the function of $+=$ in javascript as seen below? var A = 1
	A +=
	It adds two objects
	It concatenates two strings
	It increments A by 1
	It adds two to A
25.	How do you reference an array element?
	<pre>myStudent[element]</pre>
	<pre>myStudent(element)</pre>
	myStudent:element
	<pre>myStudent{element};</pre>
26.	What is the name of a program used to type in HTML codes?
	Browser
	Text editor
	Source
	Internet Explorer
27.	What does MVC stand for?
	Message, Verbs and Circuit
	Model, View and Controller
	Model, View, and Circuit
	Message, Verbs and Codes







	28. What are the four major components of MVC?	
	Routes, Models, Views and Controllers	
	Routes, Message, Database and Verbs	
	Message, Routes, Controllers and Database	
	<ul><li>Database, Models, Controllers and Views</li></ul>	
Optio	nal comments about the assessment process, challenges, etc.	
You can	no longer make changes to your challenge submissions. You can manage your account	
	or log out if you are done.	





