

[COURSES](#) > [FALL 2007 INTRO PROGRAMMING.COMP110.004](#) > [CONTROL PANEL](#) > [ASSIGNMENTS](#) > PREVIEW ASSESSMENT HOMEWORK 3

Preview Assessment Homework 3

Name: Homework 3

Instructions: Your assignment must be properly submitted on BlackBoard by the deadline for it to be graded.

Completing your submission:

- When submitting, be sure to press the "Submit" button.
- The Save button does NOT submit your assignment.

Verify that your submission is complete

In BlackBoard, select the "My Grades" section in the main menu
The icon next to the assignment should be a an exclamation mark (!).

Having trouble with Blackborad:

- Try using a different computer to submit your homework on BlackBoard.
- You might be blocked out of the assignment and cannot access it. Also in the "My Grades" section a lock icon appears in place of your assignment. Email Dorian and Will and we will reset your entry.

Multiple Attempts: Not allowed. This Test can only be taken once.

Force Completion: This Test can be saved and resumed later.

▼ Question Completion Status:

Question 1

3 points

Save

What can go between the HTML `<script></script>` tags?

- HTML tags
- Text that is displayed on the web page
- JavaScript program

Question 2

3 points

Save

What can go between the HTML `<form></form>` tags?

- HTML tags
- Text that is displayed on the web page
- JavaScript program

Question 3**2 points**[Save](#)

Here is an if else statement that checks if the variable **number** is within one of five ranges.

```
if (1000 < number)
    alert("Range 1");
else if (500 <= number)
    alert("Range 2");
else if (100 <= number)
    alert("Range 3");
else if (0 <= number)
    alert("Range 4");
else
    alert("Range 5");
```

In the above if-else statement, what is the final range displayed by the alert message if number is **-1 (negative one)**

- Range 1
- Range 2
- Range 3
- Range 4
- Range 5

Question 4**2 points**[Save](#)

In the above if-else statement, what is the final range displayed by the alert message if number is **50**

- Range 1
- Range 2

- Range 3
- Range 4
- Range 5

Question 5**2 points**[Save](#)

In the above if-else statement, what is the final range displayed by the alert message if number is **100**

- Range 1
- Range 2
- Range 3
- Range 4
- Range 5

Question 6**2 points**[Save](#)

In the above if-else statement, what is the final range displayed by the alert message if number is **1000**

- Range 1
- Range 2
- Range 3
- Range 4
- Range 5

Question 7**2 points**[Save](#)

Can the previous if-else statement be written as a switch statement?

- It can be written as a switch statement.
- No

Question 8**5 points**[Save](#)

Rewrite the above if-else statement without else statements. Use the variable **number** and produce the same alert message that displays the range 1-5.

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Question 9**5 points**[Save](#)

Write an if-else statement to identify if the variable named **number** is even or odd (assume number is an integer. It should display an alert message "**Even**" or "**Odd**" if the value of **number** is even or odd respectively.

Normal 3 Times New Roman **B** *I* U [List Icons]







Question 10**5 points**[Save](#)

Write a **while** loop that displays numbers divisible by 3 between 0 to 100.
Example: 0 3 6 9 . . . 96 99. Display the number with an alert message.

Normal 3 Times New Roman **B** *I* U [List Icons]

Question 11**5 points**[Save](#)

Write a **for** loop that produces the same output as the previous question (displays numbers divisible by 3 between 0 to 100).

Normal 3 Times New Roman **B** *I* U       

Question 12**10 points**[Save](#)

The following is a while loop that computes the product $1*2*3*4*5$. Trace the output of the loop. That is fill in the integer values that would be displayed by the

document.write() command. The first write command is shown as an example. Fill in the remaining values.

```
var i = 1;
var product = 1;
while (i<=5){
    product = product * i;
    document.write("i= " + i + " product= " + product + "<br>");
    i++;
}
```

i= 1 product= 1

i=	product=
i=	product=
i=	product=
i=	product=

Question 13

2 points

Save

The following for loop computes the binary value of the decimal value stored in the variable named number (213). Trace the output of the loop. That is fill in the integer values that would be displayed by the document.write() command. The first write command is shown as an example. Fill in the remaining values.

```
var i;
var oneZero = "";
var bitValue = 128;

var number = 213;

for (i=8; i >=1; i--){

    if (number >= bitValue){
        oneZero = "1";
        number = number - bitValue;
    } else
```

```

oneZero = "0";

document.write("bit " + i + " number " + number + "bitValue"+
               bitValue + " oneZero " + oneZero + " <br>");

bitValue = bitValue/2;
}
    
```

bit	8	number	85	bitValue	128	oneZero	1
bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>
bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>

Question 14

2 points

Save

bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>
bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>

Question 15

2 points

Save

bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>
bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>

Question 16

2 points

Save

bit	<input type="text"/>	number	<input type="text"/>	bitValue	<input type="text"/>	oneZero	<input type="text"/>
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Save Submit