

LEVEL II – JS:

JavaScript Basics - Problems on Functions/Conditional/Looping Statements

Working with loops and conditional statements:

1. Write a loop which prompts for a number greater than 100. If the visitor enters another number – ask them to input again.

The loop must ask for a number until either the visitor enters a number greater than 100 or cancels the input/enters an empty line.

Here we can assume that the visitor only inputs numbers. There's no need to implement a special handling for a non-numeric input in this task.

2. Using if..else, write the code which gets a number via prompt and then shows in alert:

1, if the value is greater than zero,

-1, if less than zero,

0, if equals zero.

In this task we assume that the input is always a number.

3. Write a function min(a,b) which returns the least of two numbers a and b.

For instance:

min(2, 5) == 2

min(3, -1) == -1

```
min(1, 1) == 1
```

4. Write the code using if..else which would correspond to the following switch:

```
switch (browser) {  
  case 'Edge':  
    alert( "You've got the Edge!" );  
    break;  
  
  case 'Chrome':  
  case 'Firefox':  
  case 'Safari':  
  case 'Opera':  
    alert( 'Okay we support these browsers too' );  
    break;  
  
  default:  
    alert( 'We hope that this page looks ok!' );  
}
```

5. Rewrite the code below using a single switch statement:

```
let a = +prompt('a?', "");  
  
if (a == 0) {  
  alert( 0 );  
}  
  
if (a == 1) {  
  alert( 1 );  
}
```

```
if (a == 2 || a == 3) {  
  alert( '2,3' );  
}
```

6. Write a function `min(a,b)` which returns the least of two numbers `a` and `b`.

For instance:

```
min(2, 5) == 2  
min(3, -1) == -1  
min(1, 1) == 1
```

7. Write a function `pow(x,n)` that returns `x` in power `n`. Or, in other words, multiplies `x` by itself `n` times and returns the result.

```
pow(3, 2) = 3 * 3 = 9  
pow(3, 3) = 3 * 3 * 3 = 27  
pow(1, 100) = 1 * 1 * ... * 1 = 1
```

Create a web-page that prompts for `x` and `n`, and then shows the result of `pow(x,n)`.