Day 3 :

Goal :

* Members will understand the uses of arithmetic operators and their implementation
* Members will create a cryptocurrency converter
* Members will have an understand of the uses of loops and their implementation
* Members will implement loops to create a grid of points

1. Arithmetic Operators
   1. -$a negation
   2. $a + $b addition
   3. $a - $b subtraction
   4. $a \* $b multiplication
   5. $a / $b division
   6. $a % $b modulus
   7. $a \*\* $b exponential
2. Totals
   1. $total = 5;
   2. $total = $total \* 2;
   3. echo $total;
   4. Combined Arithmetic Operators
      1. $total \*= 2;
         1. Exercise - Unit converter
3. Loops
   1. Used for repetitive actions  
      $staff = [ ‘Ximena’, ’Gustavo’, ’Miguel’, ’Steve’, ’Jacob’];  
      echo “<li>$staff[0]</li>”;  
      echo “<li>$staff[1]</li>”;  
      echo “<li>$staff[2]</li>”;  
      echo “<li>$staff[3]</li>”;  
      echo “<li>$staff[4]</li>”;
   2. while (condition){   
       //repeat this while condition is true  
      }
   3. $i = 0;  
      while ($i<10){ // explain this  
       echo $i;  
       $i++;  
      }
   4. while($i<5){  
       echo “<li>$people[$i]</li>”;  
      }
   5. for (initializers;conditionals;increment){  
       //do this thing a certain number of times  
        
      }
      1. I,j,k
      2. Make a graph - 15 minute challenge
         1. for($i = 0; $i < 10;$i++){  
             for($j = 0; $j < 10 ; $j++){  
             echo " ( $i , $j )";  
             }  
             echo "<br/>";  
             }
      3. Beginner : 1 x 5
      4. Intermediate : Make a 10x5, 50x100
      5. Advanced : 10x10 with color gradient or multiplication table