- 1. For finding duplicates in a list I had a double for loop parsing through the list comparing each word in the list to see if they are the same. If they are then I print out the name.
- 2. For finding if the word is a palindrome I convert the string into a character array. I iterate closer to the center to the array, starting from the first and last indexes, checking if each character is the same. If it is not the same then I return false. If it goes through the loop then I return true and state its a palindrome.
- 3. For fizzbuzz I take in a number and first check if it is divisible by 3. If it is then I will check if it is divisible by 5. If it is both then I print out "fizzbuzz". If it is only divisible by 3 then I print out "fizz". If it is not divisible by 3 then I check if it is divisible by 5. If it is then I print out "buzz". If it is not divisible by either than nothing is printed out.
- 4. For checking if two words are anagrams I first take both strings and convert them to character arrays. I then sort the character arrays and iterate through both character arrays to make sure that both arrays are the same.
- 5. To print out the multiplication table I fill a multidimensional array with two for loops having the first coordinate array multiplying by the second coordinate array. I then use a single loop to pass through the multidimensional array putting in a new line at the end of the first coordinate array.

```
■ Emulator TEST2 Android 10, AP ▼ | com.example.basicfunctions (678, ▼ | Verbose ▼ | Q-

✓ Regex Show only selected application

    20-01-29 23:21:43.538 6784-6784/com.example.basicfunctions V/WTF: It is a palindrome 20-01-29 23:21:43.538 6784-6784/com.example.basicfunctions V/WTF: cat 20-01-29 23:21:43.538 6784-6784/com.example.basicfunctions V/WTF: dog
    20-01-29 23:21:43.538 6784-6784/com.example.basicfunctions V/WTF: dog
20-01-29 23:21:43.538 6784-6784/com.example.basicfunctions V/WTF: fizzbuzz
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions V/WTF: It is an anagram
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: Table
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: 1 2 3
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: 3 6 9
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: 4 8 1
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: 5 8 0
20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: 6 9
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   20-01-29 23:21:43.539 6784-6784/com.example.basicfunctions I/System.out: 5 20-01-29 23:21:43.540 6784-6784/com.example.basicfunctions I/System.out: 6
    100
                                                                                                                                             Host Connection established 0xdef24c80, tid 6829
             List<String> list = new ArrayList<>();
             list.add("cat");
             list.add("dog");
             list.add("cat");
             list.add("mouse");
             list.add("dog");
             String word = "racecar";
Palindrome pal = new Palindrome();
             if(pal.checkPalindrome(word))
                     Log.v( tag: "WTF", msg: "It is a palindrome");
             }
                     Log.v( tag: "WTF", msg: "It is not a palindrome");
             Duplicates duplicate = new Duplicates();
             duplicate.findDuplicates(list);
             FizzBuzz fizzBuzz = new FizzBuzz();
             fizzBuzz.printFizzBuzz( number: 15);
             Anagrams anagram = new Anagrams();
             if(anagram.checkAnagram("coat", "taco"))
                     Log.v( tag: "WTF", msg: "It is an anagram");
             else
                     Log.v( tag: "WTF", msg: "It is not an anagram");
```

Tables table = new Tables();

table.printTable();