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Homework Problems and Solutions for Loop Statements

```
for i in range(1, 21):
```

1. Print all even numbers from 1 to 20.

```
if i % 2 == 0:
    print(i)
```

for i in range(1, 101):

2. Calculate the sum of all numbers from 1 to 100.

```
total += i
      print(total)
 4
3. Print the multiplication table of 7.
```

$print(f"7 x {i} = {7 * i}")$

4. Print the first 10 Fibonacci numbers.

for i in range(1, 11):

string = "hello world"

vowels = "aeiou"

for char in string:

count = 0

1

4

3

4

7

5

3

total = 0

```
a, b = 0, 1
for _ in range(10):
    print(a)
   a, b = b, a + b
```

if char in vowels: count += 1 6

5. Count the number of vowels in a given string.

```
print(count)
6. Print all prime numbers between 1 and 50.
                                                                      python
 for num in range(2, 51):
         is_prime = True
 2
```

is_prime = False 5 break 6

reversed_string = char + reversed_string

for i in range(2, int(num ** 0.5) + 1):

if num % i == 0:

if is_prime:

print(reversed_string)

num = 5

factorial = 1

```
8
              print(num)
7. Reverse a given string.
                                                                                 python
       string = "hello"
 1
       reversed_string = ""
 3
       for char in string:
```

factorial *= i 4 print(factorial) 5

for i in range(1, num + 1):

print(lst[i])

for num in 1st:

print(max_num)

if num > max_num:

 $max_num = num$

3

4

6

8. Find the factorial of a given number.

```
9. Print the elements of a list in reverse order.
                                                                            python
      lst = [1, 2, 3, 4, 5]
      for i in range(len(lst) - 1, -1, -1):
```

lst = [1, 2, 3, 4, 5] $max_num = lst[0]$

10. Find the largest number in a list.

```
11. Print the squares of numbers from 1 to 10.
                                                                         python
      for i in range(1, 11):
         print(i ** 2)
```

words = sentence.split() print(len(words)) 3

sentence = "hello world this is a test"

for digit in str(num):

print(total)

total += int(digit)

3

4

5

12. Count the number of words in a given sentence.

```
13. Print the sum of the digits of a given number.
                                                                      python
      num = 12345
      total = 0
```

14. Print a pattern of stars in a right triangle.

```
python
     n = 5
     for i in range(1, n + 1):
         print('*' * i)
3
```

num = 1211 $num_str = str(num)$

15. Check if a given number is a palindrome.

```
is_palindrome = True
     for i in range(len(num_str) // 2):
4
         if num_str[i] != num_str[-(i + 1)]:
             is_palindrome = False
6
             break
8
     print(is_palindrome)
```