

PFDS: FINAL EXAM -- TERM ONE (BONUS QUESTION #1)

Write a program to print twin primes less than 1000.

- If two consecutive odd numbers are both prime then they are known as twin primes

```
In [4]: def is_prime(num):  
        for i in range(2, num):  
            if num % i == 0:  
                return False  
        return True  
def generate_twins(end):  
    for i in range(end):  
        j = i + 2  
        if(is_prime(i) and is_prime(j)):  
            print(f"{i} and {j}")  
print("Twin primes less than 1000: ")  
generate_twins(1000)
```

Twin primes less than 1000:

0 and 2
1 and 3
3 and 5
5 and 7
11 and 13
17 and 19
29 and 31
41 and 43
59 and 61
71 and 73
101 and 103
107 and 109
137 and 139
149 and 151
179 and 181
191 and 193
197 and 199
227 and 229
239 and 241
269 and 271
281 and 283
311 and 313
347 and 349
419 and 421
431 and 433
461 and 463
521 and 523
569 and 571
599 and 601
617 and 619
641 and 643
659 and 661
809 and 811
821 and 823
827 and 829
857 and 859
881 and 883

In []: