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SBL - Python - Experiment [2]

→ Aim: Write a program to find all prime number within a given range.

→ Theory: (1) To find all the prime number within a given range we need to define a range.
(2) We can then use the for in() function in python to go through every single number b/w the range.
(3) This can be done with the help of range keyword.
(4) Then using nested loops to find the prime using its logic.

→ Program:

```
lower_limit = 1  
upper_limit = 50
```

```
for prime_number in range (lower, upper+1):  
    if prime_number > 1:  
        if  $\exists i$  in range (2, prime_number):  
            if (prime_number % i) == 0:  
                break  
        else:  
            print (prime_number)
```

Output :-

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2

3

5

7

11

13

17

19

23

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43

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→ Result: Thus as we see we have extracted all the prime number in a specified range and then printed them line by line.