

Prime

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This is a python project for how to find the first 100 prime number and use how many time

IBM.jpg

Figure 1: This is a margin figure. Here is where you put the caption for your margin figure.

I am doing the code with "if" conditional.

REPRESENTING PYTHON CODE IN YOUR ASSIGNMENT

```
import time

start=time.time()

a=[]
num=2

while len(a)<100:
    prime=True
    for x in range(len(a)):
        if num%a[x]==0:
            prime=False
    if prime:
        a.append(num)
    num=num+1
print a

end = time.time()

print (end - start)
```

First, I set the a to represent any numbers. Secondly, I set b as a final answer. Then I set a range for m and start it from 2 and ends at a. After that, I set a "if" formula, in order to get if it is prime or not. Finally, I can know the the number is prime or not.

```
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53  
, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113  
, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181,  
191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241, 251, 257  
263, 269, 271, 277, 281, 283, 293, 307, 311, 313, 317, 331,  
337, 347, 349, 353, 359, 367, 373, 379, 383, 389, 397, 401,  
409, 419, 421, 431, 433, 439, 443, 449, 457, 461, 463, 467  
, 479, 487, 491, 499, 503, 509, 521, 523, 541]  
0.221705913544
```

This indicates the output of this program.