

[7]: #15-09-25

#write a program to check the given number is prime or not

```
num=int(input("enter a num"))
```

```
count=0
```

```
print("bc=",count) #bc=before count
```

```
for i in range (2,num,1):
```

```
    if(num%i==0):
```

```
        count =count+1 #count=2
```

```
    else:
```

```
        count=count
```

```
print ("ac=",count)
```

```
if(count==0):
```

```
    print("prime number")
```

```
else:
```

```
    print("not a prime number")
```

#alternate program by using break loop function

```
num = int(input())
```

```
for i in range(2,num,1):
```

```
    if(num%i==0):
```

```
        print("not a prime number")
```

```
        break
```

```
else:    (#any number which is not divisable by any number is prime number)
```

```
    print("prime number")
```

```
enter a num 2
```

```
bc= 0
```

```
ac= 0
```

```
prime number
```



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prime number

4

not a prime number

[4]: #LOOP STATEMENTS
 #1.BREAK:IT WIL BREAK TILL WHERE MENTIONED FOR EXAMPLE BREAK==5 , IT WILL BREAK OR STOP IN 4
 #2.CONTINUE:IT WILL SKIP PARTICULAR CONDITION OR NUMBER
 #3.PASS

#EXAMPLES:

#1.BREAK:

```
for i in range(1,11,1):
    if(i==5):
        continue
    else:
        print(i)
```

1
2
3
4
6
7
8
9
10

[6]: #example for break loop:
 for i in range(1,11,1):
 if(i==5):
 break #number gets break execution or stops by 5
 else:
 print(i)

1
2



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```
for i in range(1,11,1):  
    if(i==5):  
        break    #number gets break execution or stops by 5  
    else:  
        print(i)
```

1
2
3
4

[]: while loop syntax:

Initialization

```
while(condition):  
    statements  
    incrementation/decrementation
```

[]: #name="priyanka"

#o/p

#0=p

#1=r

#7=a

name=Amsaveni

i=0

```
while(i<len(name)): #lenth of the name is 8 but we mention as lesser than name Lenth i.e 8 since first alphabt assigned  
    print(f"position={i} :value ={name[i]}")  
    i +=1
```



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