

26-09-2025

- write a syntax of for loop inside while loop

initialization of while loop

while(condition):

 for var in range():

 statements of for loop

 statements of while loop

 inc/dec of while loop

- write a syntax of while loop inside for loop

for var in range():

 initialization of while loop

 while(condition):

 statements of while loop

 inc/dec of while loop

 statements of for loop

Q)WAP to check the given number is prime or not.

A) num = int(input("enter a number:"))

count = 0

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

 if(num%i==0):

 count=count+1

 else:

 count= count

```
print(count)
if(count==0):
    print("its a prime number")
else:
    print("its not a prime number")
```

```
o/p:
enter a number: 8
2
its not a prime number
```

2)WAP to count even number,odd number,natural numbers from 1 to 20.

```
A) en = 0
```

```
on = 0
```

```
nn = 0
```

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

```
    nn = nn+1
```

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

```
        en=en+1
```

```
    else:
```

```
        on=on+1
```

```
print(f"natural numbers={nn}\neven numbers={en}\nodd
numbers={on}")
```

```
o/p:
```

```
natural numbers=20
even numbers=10
odd numbers=10
```