Algorithm:

1. START.

2. SET variables a=0 and i=0.

3. Create a for loop, with variable ‘i’ ranges from 0-100.

4. Create the if condition which checks whether the number is divisible by 10 or contains 3.

5. If yes, increment variable ‘a’ and repeat the condition check.

6. Else print the number ‘a’ and increment variable ‘a’.

7. Increment value or variable ‘i’ and continue the loop until range finishes.

8. END

Python Code:

a=0

i=0

for i in range (0,100):

    if a%10 == 0 or '3' in str(i):

        a += 1

    else:

        print(a)

        a += 1

    i += 1