Patterns

10 February 2026 23:30

Q1. Print all the prime number between 1 to n.
Q2. Print the following pattern:

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

Q3.

```
*
* *
* * *
* * * *
```

Q4.

```
   *
  * *
 * * *
* * * *
```

Q5.

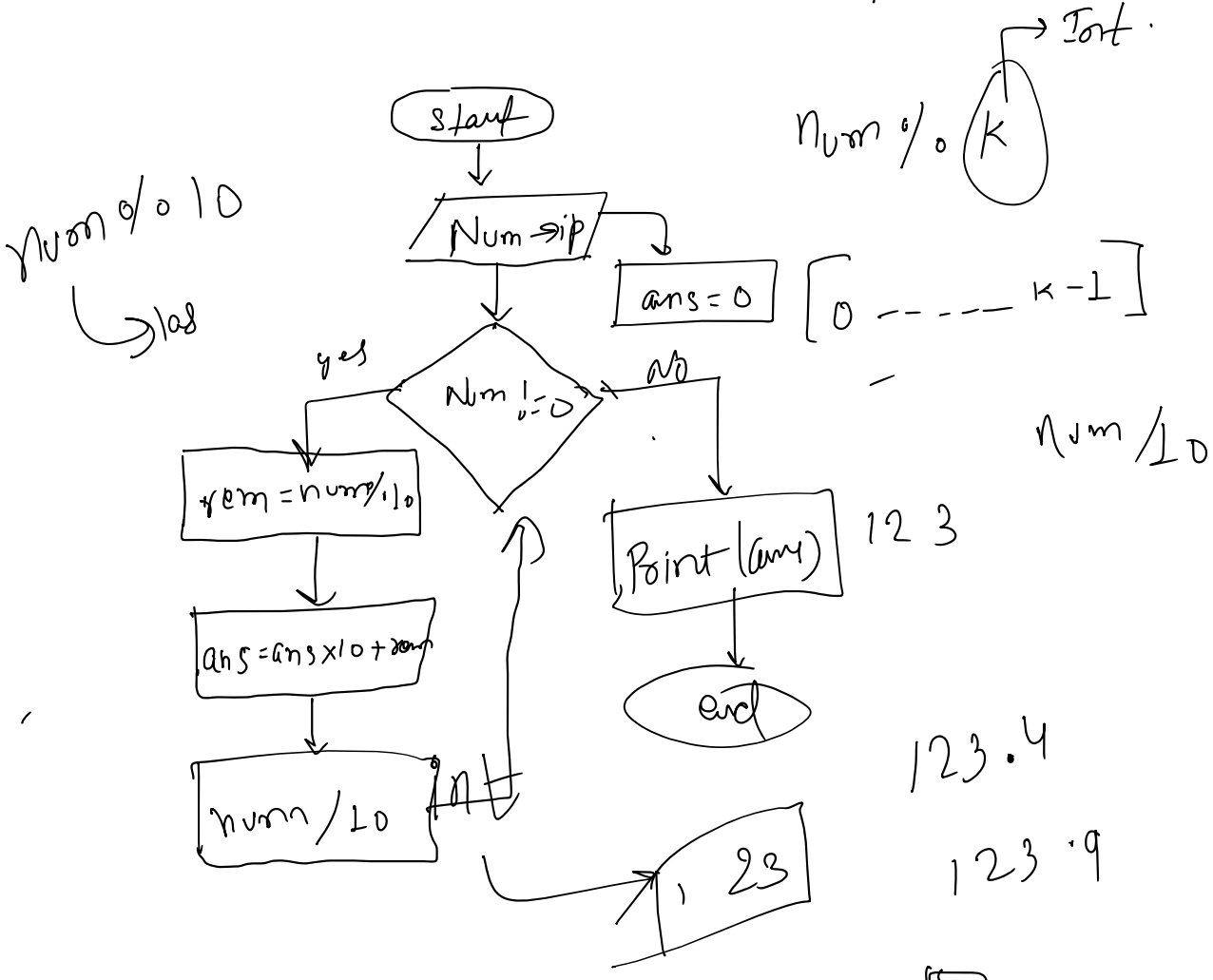
```
* * * *
 * * *
  * *
   *
```

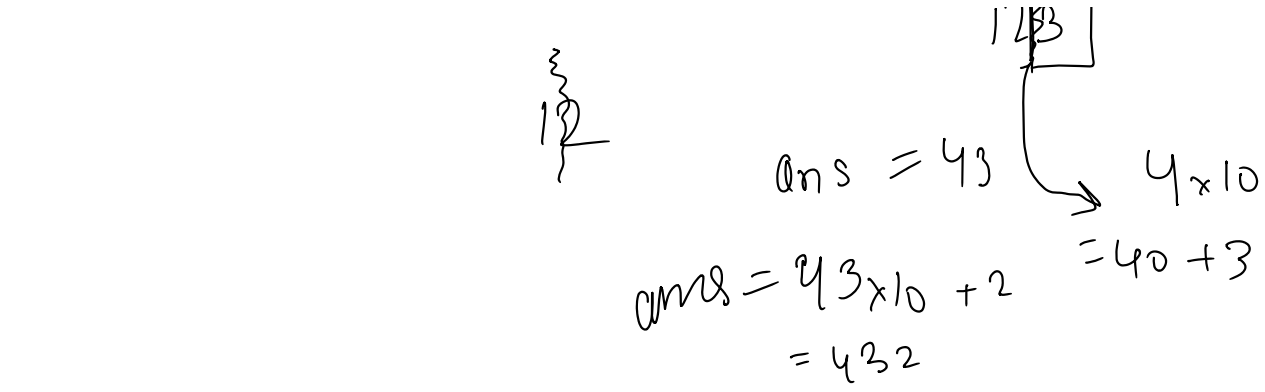
num = 4

Q. 1 2 3 4 → 4 3 2 1

num % 10 → 7

17 % 10





Q. write the code to print the sum of the digits

Eg:- Num = 123

o/p = 6

↳ Sum = 0

```
while (n != 0){
    int rem = n % 10;
    sum = sum + rem;
    n = n / 10;
}
Print (sum);
```

Q. Num

↳ if a given number is prime or not?

Q2 Ans:

for (int i = 0; i<4; i++)

row: init, condn

[1 2 3]

```
for(int i=1;i<=4;i++){
    for(int j=1;j<=4;j++){
        System.out.print("*");
    }
    System.out.print("\n");
}
```

col: ↳ 4 times.

1	2	3
4	5	6
7	8	9

* * * 1 — 1

* * * 2 — 2

* * * 3 — 3

* * * 4 — 4

i=1, J=2

↳ 1st row 1 Col

*

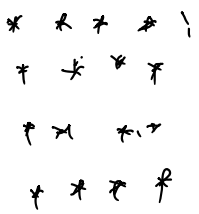
i=1 ; J=2

* *

i=1 ; J=3 → 4 → 5

* * *

i=2 ; j=1



```
for (int i=0; i<4 ; i++)
    for (int i=1; i<=3 ;i++)
```

↳ Diffrence?