Panel 1: while loop

```
while bool-expr :
    |_____|  → true
    |_____|
            ↓
_____ false
|
```

Panel 2: for loop

```
for New-Var in collection:    1,2,3,4,5
    |_____|
    |_____|
            ↓
    |_____|
    |
```

Panel 3: range

$$range(1, 10, 2) \Rightarrow 1,3,5,7,9$$
$$range(1, 10) \Rightarrow 1,2,3,---,9$$
$$range(10) \Rightarrow 0,1,2,---,9$$

Panel 4

```
what's 5 * 7 ?
>> 35
what's 2 * 4 ?
>> 6
what's 9 * 2 ?
>>
.
.
>> 70
Game Over
```

Panel 5

```
What's 3 * 7 ?
>> 25
Try again, what's 3 * 7 ?
>> 30
Try again, what's 3 * 7 ?
>>
.
.
>> 21
Correct
```

Panel 6

```
Guess num btw 0-100        num
>> 55                     | 29 |
Go down
>> 30                     guess
Go down                  | 55 |
>> 15                      30
Go up                      15
>> 25                      25
Go up                      29
>> 29
You Guessed Right !!
```

Panel 7

```
What's 5 * 7 ?
>> 35
correct
what's 2 * 4 ?
>> 20
Wrong
what's 6 * 6 ?
>> 33
Wrong
_____
_____
_____
_____
_____

Your score 3 out of 5
```

Panel 8

```
Enter num of std : 4
Enter exam full Mark: 25

Enter std mark : 23
```

$$Pct = \frac{mark}{full\_mark} * 100$$

```
>=50  Pass
      Fail
```

Print first 50 prime number

all cannot divide → Prime → Print

number: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, ...

one divide → break → not prime → no print

Print: 2, 3, 5, 7, 11

```
while ____ :
    for ____ :
        if ____ :
            break
```