Panel 1 (top-left)

```
while bool-expr :
    ┌──────────┐  true
    └──────────┘
    ┌──────────┐  (False)
```

Panel 2 (top-middle)

1,2,3,4,...,10

```
for new_var in collection :
    ┌──────────┐
    ┌──────────┐
```

range(1, 10, 2) ⟹ 1,3,5,7,9
range(1, 10) ⟹ 1,2,3,...,9
range(10) ⟹ 0,1,2,...,9

Panel 3 (top-right)

what's 5 * 3?
≫ 15
what's 7 * 5 ?
≫ 35
what's 2 * 10 ?
≫
¦
≫ 13
Game Over!

Panel 4 (middle-left)

what's 5 * 3?
≫ 50
Try again, what's 5 * 3?
≫ 25
Try again, what's 5 * 3?
≫
¦
≫ 15
Correct

Panel 5 (middle-middle)

Guess a num btw 0-100
≫ 80
Go down
≫ 40
Go up
≫ 50
Go up
≫ 70
Go down
≫ 68
You Guessed Right!

number
┌────┐
│ 68 │
└────┘

guess
┌────┐
│ 80 │
└────┘
40
50
70
68

Panel 6 (middle-right)

What's 3 * 7?
≫ 27
Wrong

What's 8 * 5 ?
≫ 40
Correct

Your score 3 out of 5

Panel 7 (bottom-left)

Enter num of std.: 4
Enter exam full mark: 25

Enter std. mark : 20

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

>=50   Pass
       Fail

Panel 8 (bottom-middle)

len(-)
① at least 8 char
   isdigit()
② at least 2 digits
   isupper()
③ at least 2 upper

Panel 9 (bottom-right)

Ahmed 123 ✗
20AhmeD20 ✓

digit_count	upper_count
0	0
1	1
2	2
3	
4	

Print first 50 Prime numbers

all
cannot → Prime → Print
divide

number: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, ...

↳ one → break → not → no
divide   Prime   Print

Print: 2, 3, 5, 7, 11

while ——— :
  for ——— :
    if ——— :
      break

GCD

$$\frac{x}{8} \quad \frac{y}{24}$$

gcd	div
1	1
2	3
4	4
8	5
	6
	7
	8