Question 1:

Guess the output of this program:

```
1. for pos in range(0, 12, 3):
2.     print(pos, end=' ')
```

0 3 6 9 12

0 3 6 9

0 1 2 3 4 5 6 7 8 9 10 11

Question 2:

Guess the output of this program:

```
1. for pos in range(-10, -20, -3):
2.     print(pos, end=' ')
```

-10 -13 -16 -19

-10 -13 -16

Empty Output

Question 3:

For input -127532, the output is:

```
1. num = int(input())
2. mystr = str(abs(num))
3. sum = 0
4.
5. for char in mystr:
6.     sum += int(char)
7. print(sum)
```

17

20

Error

12

25

Question 4:

For input -127532 this program outputs:

```
1. num = int(input())
2. mystr = str(abs(num))
3. pos = 4
4.
5. for idx, char in enumerate(mystr):
6.     if idx == len(mystr) - pos:
7.         print(char)
8.         break
```

1

2

7 (default from start 0)

5

3

Question 5:
Guess the output of this program:

```
n = 6
a, b = 0, 1

for sep in range(n):
    c = a+b
    a = b
    b = c

print(c)

```

8

13

21

34

Compute Fibonacci sequence

Question 6:
Guess the output of this program:

```
steps = 0
mystr = 'hello123uj'

for char in mystr:
    if '0' <= char <= '9':
        break
    steps += 1

print(steps)

```

Error

3

4

5

6

7

8

It stops once find a digit in a string. Observe the condition to check a digit

Question 7:
Guess the output of this program:

```
1. sum = 0
2. for pos in range(3, 6, 2):
3.     sum += pos
4. print(pos)
```

4

5

6

7

8

9

Question 8:
Guess the output of this program:

```
1. for pos in range(3, 6, 2):
2.     pos *= 10
3. print(pos)
```

Error

Undefined Behaviour

50

Question 9:
These 2 blocks are the same logic?

```
1. for i in range(20):
2.     status = i % 3 == 0 or i % 5 == 0 or i % 7 == 0
3.     if status:
4.         print(i)
```

```
1. for i in range(20):
2.     status = i % 3 != 0 and i % 5 != 0 and i % 7 != 0
3.     if not status:
4.         print(i)
```

True

False

not (i % 3 == 0 or i % 5 == 0 or i % 7 == 0) ==> i % 3 != 0 and i % 5 != 0 and i % 7 != 0.
That is: we not every term and switch every or to and. If you can't get it, skip it.