Day-13: Stack & Queue

Problem 1: Implement a stack using an array.

```
class Stack:
  def __init_(self):
    self.stack = []
  def push(self, item):
    self.stack.append(item)
  def pop(self):
    if not self.is_empty():
       return self.stack.pop()
     else:
       return None
  def is_empty(self):
     return len(self.stack) == 0
  def print_stack(self):
    if not self.is_empty():
       print("Stack:")
       for item in reversed(self.stack):
         print(item)
     else:
       print("Stack is empty")
stack = Stack()
stack.push(10)
stack.push(20)
stack.push(30)
```

```
stack.print_stack()

popped_item = stack.pop()

if popped_item is not None:
    print("Popped item:", popped_item)
```

stack.print_stack()

```
stack.
mming
        30
ing
                                       input
      Stack:
    < 30
20
      10
     Popped item: 30
      Stack:
      20
      10
      ...Program finished with exit code 0
INION
      Press ENTER to exit console.
Blog •
```