Industrial Software Development (ISDe) – February 15, 2021

Name:	Surname:	Student ID:

EXERCISE 3 (15 points) - 40 minutes

Implement a state machine that receives one character at a time. The machine will add only even numbers or only odd numbers according to the following rules.

- Initially, the machine adds the even numbers.
- If it receives the 'o' character, it goes to the state in which it adds the odd numbers, and the previous sum is deleted.
- If the character 'e' is input, it goes to the state in which it adds the even numbers, and the previous sum is deleted.
- If it receives the 'o' character when it is in the state in which it adds the odd numbers or receives the 'e' character when it is in the state in which it adds the even numbers, the input has no effect
- If it receives the 'r' character, it resets the sum
- If it receives the 'p' character, it prints the sum.

Use the **state desing pattern** to implement this behavior.

Write your code into a single 'main_3.py' file

The output is:

```
6
12
0
2
9
18
0
4
```