**ДАДАТАК В**

```
import logging
import threading
import time
from router import Router

class Recalculation(threading.Thread):
    TIMEOUT = 5

    def __init__(self, router, coefficient, threshold):
        super().__init__()
        self.router = router
        self.coefficient = coefficient
        self.threshold = threshold

    def run(self):
        while True:
            try:
                interfaces = self.router.get_interfaces()
                for interface in interfaces:
                    name = interface.get_name()
                    old_txload = interface.get_txload()
                    current_txload = self.router.get_interface_txload(name)

                    new_txload = round(
                        self.coefficient * old_txload +
                        (1 - self.coefficient) * current_txload)
```

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| Зм. | Аркуш | № докум. | Подпіс | Дата | | | |
| Распрац. | | Буцько | | | Зыходны код класа Recalculation | Літ. | Аркуш 1 / Аркушаў 2 |
| Правяр. | | Рудинская | | | | | |
| Рэцэнз. | | | | | | БДАС СП-741 | |
| Н. Кантр. | | Боженков | | | | | |
| Зацвярдж. | | Горбацей | | | | | |

```
            if abs(new_txload - old_txload) > self.threshold:
                interface.set_txload(current_txload)
                self.router.restart_eigrp()
                logging.critical('Metric is recalculated for router: {router}'
                    .format(router=self.router.get_host()))
                logging.critical('Old Load: {old_load}; New Load: {new_load}'
                    .format(old_load=old_txload, new_load=current_txload))
                break
            else:
                print('Load change on {interface_name} is less than threshold'
                    .format(interface_name=name))
                print('New Load: {new_load}; Old Load: {old_load}'
                    .format(new_load=new_txload, old_load=old_txload))
        time.sleep(Recalculation.TIMEOUT)
    except:
        logging.error('Router ({host}) is not found'.format(host=self.router.get_host()))
        break
```