ДАДАТАК А

```
import paramiko
import requests
import json
from interface import Interface
requests.packages.urllib3.disable warnings()
class Router:
  def __init__(self, host, username, password):
     self.host = host
     self.username = username
     self.password = password
     self.interfaces = self. set interfaces()
  def get_host(self):
    return self.host
  def _set_interfaces(self):
     interface_names = self.get_interface_names()
     interfaces = []
     for interface name in interface names:
       txload = self.get_interface_txload(interface_name)
       interfaces.append(Interface(interface name, txload))
    return interfaces
```

					БДАС.450102.002 ІД			
Зм.	Аркуш	№ дакум.	Подпіс	Дата	БД/1С. 130 102.002 1Д			
Распрац.		Буцько			Зыхадны кад	∕lim.	Аркуш	Аркушау
Правяр.		Рудинская					1	4
Рэцэнз.								
Н. Кантр.		Боженков			класа Router БДАС СП-741			-741
Зацвярдж.		Γορδαдεύ						

```
def get_interfaces(self):
     return self.interfaces
  def get interface names(self):
     url = 'https://{h}/restconf/data/ietf-interfaces:
         interfaces/interface?fields=name'.format(h=self.host)
    headers = {'Content-Type': 'application/yang-data+json',
           'Accept': 'application/yang-data+json'}
     response = requests.get(url=url,
                    auth=(self.username, self.password),
                    headers=headers,
                    verify=False).json()
     return [interface['name'] for interface in response['ietf-interfaces:interface'] ]
  def get interface txload(self, interface name):
     ssh = paramiko.SSHClient()
     ssh.set missing host key policy(paramiko.AutoAddPolicy())
     ssh.connect(self.host, 22, self.username, self.password, look for keys=False)
     stdin, stdout, stderr = ssh.exec command(
       'show interfaces {interface name} | include
load'.format(interface name=interface name))
     output = stdout.readlines()
     ssh.close()
     return int('\r\n'.join(output).strip().split(', ')[1].split()[1].split('/')[0])
```

Зм.	Аркуш	№ дакум.	Подпіс	Дата

```
def restart_eigrp(self):
  self._disable_eigrp()
  self._enable_eigrp()
def _enable_eigrp(self):
  url = "https://{host}/restconf/data/Cisco-IOS-XE-native:
      native/router-eigrp/eigrp/classic-mode=1?fields=shutdown"
     .format(host=self.host)
  headers = {'Content-Type': 'application/yang-data+json'}
  patch_data = "
       "Cisco-IOS-XE-eigrp:classic-mode": {
         "shutdown": false
  requests.patch(url=url,
           data=patch_data,
           auth=(self.username, self.password),
           headers=headers,
           verify=False)
```

Зм.	Аркуш	№ дакум.	Подпіс	Дата

ДАДАТАК А

Зм.	Аркуш	№ дакум.	Подпіс	Дата