Home work PowerShell.

1. Составляем зарос к сервису https://swapi.dev.

2. Составляем функцию для запроса.

```
Edit View Tools Debug Add-ons Help
                                        api-request.ps1 X
  1 □function Get-SWAPIResource {
  2 🚊
          param(
  3
              [Parameter(Mandatory = $true)]
              [string]$ResourceUrl
  4
  5
  6
  7
          try {
  8
              # create object
  9
              $request = [System.Net.WebRequest]::Create($ResourceUr])
              $request.Method = "GET"
 10
 11
              # Sending a request and receiving a response
 12
 13
              $response = $request.GetResponse()
 14
 15 Ė
              try {
 16
                  # Reading data from a response
 17
                  $stream = $response.GetResponseStream()
                  $reader = New-Object System.IO.StreamReader($stream)
 18
                  $responseContent = $reader.ReadToEnd()
 19
 20
 21
                  # Closing threads
 22
                  $reader.Close()
 23
                  $stream.Close()
 24
 25
                  # Return received data
 26
                  return $responseContent
 27
              finally {
 28 🖆
 29
                  $response.Close()
 30
 31
          catch {
 32
    Ė
              Write-Error "Error while executing request: $_"
 33
 34
 35
     []
 36
 37
      # Calling a function to get data about a character with id 1
      $resourceUrl = "https://swapi.dev/api/people/1/"
      $result = Get-SWAPIResource -ResourceUrl $resourceUrl
 39
 40
 41
      # Converting JSON Data to a PowerShell Object
      $person = ConvertFrom-Json $result
 42
 43
```

```
# Table output
44
45 □$table = @{
                Name = $person.name
Height = $person.height
Mass = $person.mass
HairColor = $person.hair_color
SkinColor = $person.skin_color
EyeColor = $person.eye_color
BirthYear = $person.birth_year
Gender = $person.gender
46
47
48
49
50
51
52
53
54
55
      Write-Host "Character data with id 1:"
56
57 $table | Format-Table -AutoSize
```

```
PS C:\Windows\system32> C:\Work\api-request.ps1
Character data with id 1:
Name
         Value
Name
         Luke Skywalker
Height
         172
EyeColor blue
Mass
         77
HairColor blond
SkinColor fair
BirthYear 19BBY
Gender male
PS C:\Windows\system32>
```

3. Создаём скрипт с одним входным параметорм (номер страницы с персонажами).

```
□function Get-SWAPIResource {
2
   Ė
         param(
             [Parameter(Mandatory = $true)]
4
             [int]$pageNumber
5
         )
6
7
         $resourceUrl = "https://swapi.dev/api/people/?page=$PageNumber"
8
9
         try {
  -
L0
             # create object
             $request = [System.Net.WebRequest]::Create($ResourceUr])
L1
L2
             $request.Method = "GET"
L3
14
             # Sending a request and receiving a response
L5
             $response = $request.GetResponse()
L6
L7 🗀
             try {
L8
                 # Reading data from a response
L9
                 $stream = $response.GetResponseStream()
                 $reader = New-Object System.IO.StreamReader($stream)
20
                 $responseContent = $reader.ReadToEnd()
21
22
23
                 # Closing threads
                 $reader.Close()
24
25
                 $stream.Close()
26
27
                 # Return received data
28
                 return $responseContent
29
30 🖃
             finally {
                 $response.Close()
31
32
33
         }
34 Ė
         catch {
35
             Write-Error "Error while executing request: $_"
36
37
    [}
38
```

edacer baraniber | abricadacerber | -b. . -d---- b------b-- . .

```
39
     # Entering a page number with characters
40
     $pageNumber = Read-Host "Enter page number"
41
42
     # Calling a function to get data about a character
43
     $result = Get-SWAPIResource -PageNumber $pageNumber
44
45
     # Converting JSON Data to a PowerShell Object
     $data = ConvertFrom-Json $result
46
47
48
     # Creating a list for data output
49
     characters = @()
50
51 □foreach ($character in $data.results) {
52 Ė
         $characters += @{
                        = $character.name
53
              Name
54
              Height = $character.height
Mass = $character.mass
55
              HairColor = $character.hair_color
SkinColor = $character.skin_color
56
57
              EyeColor = $character.eye_color
BirthYear = $character.birth_year
58
59
60
              Gender = $character.gender
         }
61
    [}
62
63
64
     # Table output
     Write-Host "Character data on the page $pageNumber"
65
     $characters | Format-Table -AutoSize
66
```

```
PS C:\Windows\system32> C:\Work\api-request-param2.ps1
Enter page number: 3
Данные о персонажах на странице 3
Name
         Value
Name
         Boba Fett
Height
         183
EyeColor brown
Mass 78.2
HairColor black
SkinColor fair
BirthYear 31.5BBY
Gender male
Name
         IG-88
Height 200
EyeColor red
Mass
      140
HairColor none
SkinColor metal
BirthYear 15BBY
Gender
        none
Name
         Bossk
Height 190
EyeColor red
Mass
         113
HairColor none
```