```
1 import os
 2 import requests
 3 import shutil
 4
 5 from Logger import Logging
 6
 7 logger_obj = Logging('Advance Image Downloader') # Creating a custom based logger
 8 logger_obj.initialize_logger() # Instantiating the logger object
 9
10
11 class Download:
12
13
      def __init__(self, result=None):
14
15
        This function initializes the content of the downloaded files
        :param result: Cassandra object of the downloadable result content
16
17
18
        try:
19
           self.content = result
20
        except Exception as e:
          logger_obj.print_log('(Download.py(__init__) - Something went wrong ' + str(e), '
21
    exception')
22
          raise Exception(e)
23
24
      @staticmethod
25
      def create dir(req id):
26
27
        This function is used to create a directory for storing the images
28
29
        try:
30
          # If the folder doesn't exist then create that folder inside the directory
31
          if not os.path.exists(req_id):
32
             os.mkdir(req_id)
33
34
        except Exception as e:
           logger_obj.print_log('(Download.py(create_dir) - Something went wrong ' + str(e), '
35
    exception')
36
          raise Exception(e)
37
38
      def download_images(self, search_term, req_id):
39
40
        This function is used to download the images over the internet and then store in the
   folder created
        111111
41
42
        try:
43
          counter = 1
44
          for row in self.content:
45
             url = row.url
46
             req = requests.get(url, stream=True, headers={"User-Agent": "Mozilla/5.0 (X11;
    Linux x86_64) "
                                              "AppleWebKit/537.36 (KHTML, like Gecko)"
47
48
                                              "Chrome/51.0.2704.103 Safari/537.36"})
```

```
49
              print('Counter = {} Header = {} URL = {}'.format(counter, reg.headers, url))
50
51
              logger obj.print log('Filetype is {}'.format(req.headers['Content-Type'].split('/')[1
    ]), 'info')
52
             filetype = req.headers['Content-Type'].split(',')[1].split(';')[0]
53
54
55
              # For the files having webp as a extension
56
             if filetype not in ['jpeg', 'png']:
57
                filetype = 'jpeg'
58
59
              req.raw.decode content = True
              with open(req_id + '/' + search_term + '_' + str(counter) + '.' + filetype, 'wb') as file
60
                file.write(req.content)
61
                file.close()
62
63
                counter += 1
64
65
         except Exception as e:
66
           logger_obj.print_log('(Download.py(download_images) - Something went wrong ' +
    str(e), 'exception')
67
           raise Exception(e)
68
69
       @staticmethod
70
      def create zip(req id):
71
72
         This function will be responsible for creating the zip file of the Downloaded Images
    folder
73
         :param req_id: The Unique id of the request
         111111
74
75
         try:
76
           if not os.path.exists(req_id + '_zipfile.zip'):
77
              shutil.make_archive(req_id + '_zipfile', 'zip', req_id)
78
79
         except Exception as e:
           logger_obj.print_log('(Download.py(create_zip) - Something went wrong ' + str(e), '
80
    exception')
81
           raise Exception(e)
82
83
       @staticmethod
      def delete_file(req_id):
84
85
86
         This function will delete the given files
87
         :param req_id: The Unique id of the request
         111111
88
89
         try:
90
           # If the zip exists then remove that from the system
           if os.path.exists(req id + '_zipfile.zip'):
91
92
              os.remove(req_id + '_zipfile.zip')
93
              print('Zip file is deleted')
94
95
           # If the folder exists then remove that from the system
```

```
96
            if os.path.exists(req_id):
 97
              shutil.rmtree(req_id)
 98
              print('Image Folder is deleted')
 99
         except Exception as e:
100
            logger_obj.print_log('(Download.py(delete_old_file) - Something went wrong ' + str(
101
     e), 'exception')
            raise Exception(e)
102
103
```