```
In [1]:
```

```
import sys
sys.path.append("../..") # Position of sge library
import time
from sge import *
```

In [2]:

#!/bin/bash -1

```
# Create script code
script_code = job.serial_job_script_code('mandelbrot.sh')
script_code = job.load_module('python3', script_code)
run_code = 'python3 mandelbrot.py $JOB_ID'
script_code = job.add_working_code(script_code, run_code)
print(script_code)
```

```
#$ -1 h_rt=0:10:0
#$ -1 mem=1G
#$ -1 tmpfs=15G
#$ -N mandelbrot.sh
#$ -cwd
module load python3
python3 mandelbrot.py $JOB_ID
```

In [3]:

```
script = job.generate_script('mandelbrot', script_code) # Generate script file
```

In [4]:

```
id = job.submit_job('mandelbrot.sh') # Submit job and remember the id
```

In [5]:

```
job. job_status(id)
```

Out[5]:

'The job 9243014 is queuing and waiting.'

In [6]:

```
while(job.job_status(id)!='The job' + id + 'does not exist.'):
   time.sleep(30) #Wait 30 seconds
print("The job" + id + "has finished")
```

The job 9243014 has finished

```
In [7]:
```

```
job.return_output('mandelbrot.sh',id)
```

Out[7]:

, ,

In [8]:

```
job.return_error('mandelbrot.sh',id)
```

Out[8]:

, ;

In [9]:

```
from IPython.display import Image
Image_name = "mandelbrot" + id +".png"
Image(Image_name) # Show the image of Mandelbrot
```

Out[9]:

