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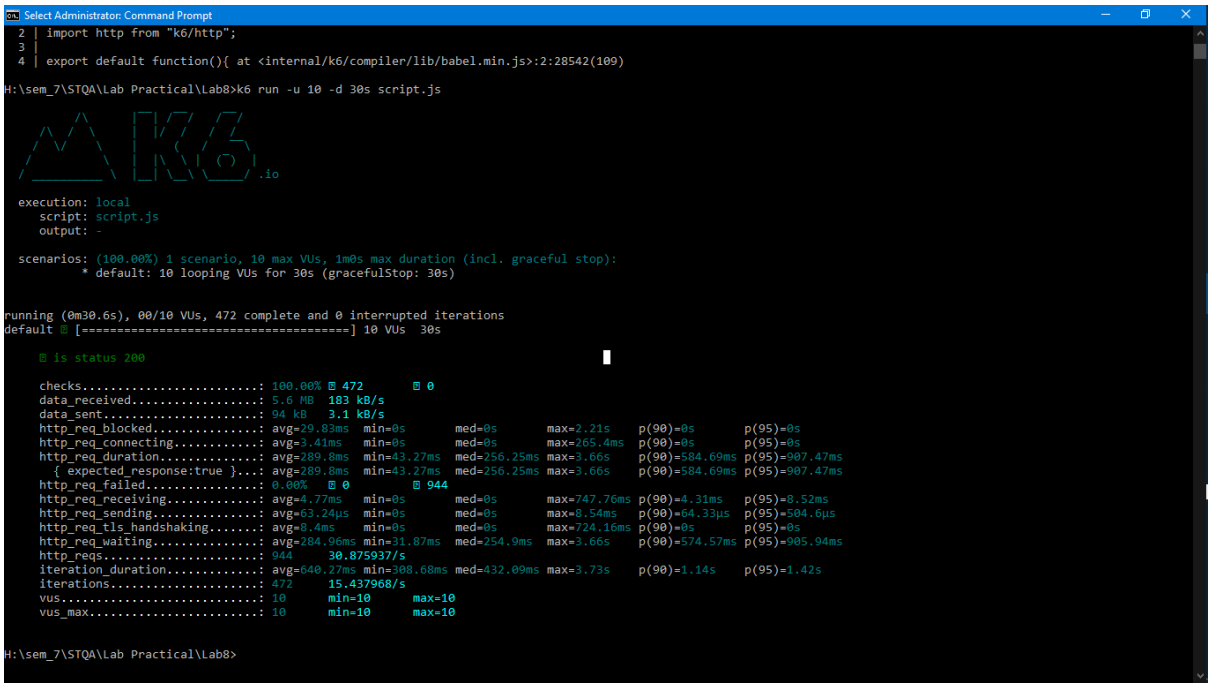
Subject: STQA

Lab 8

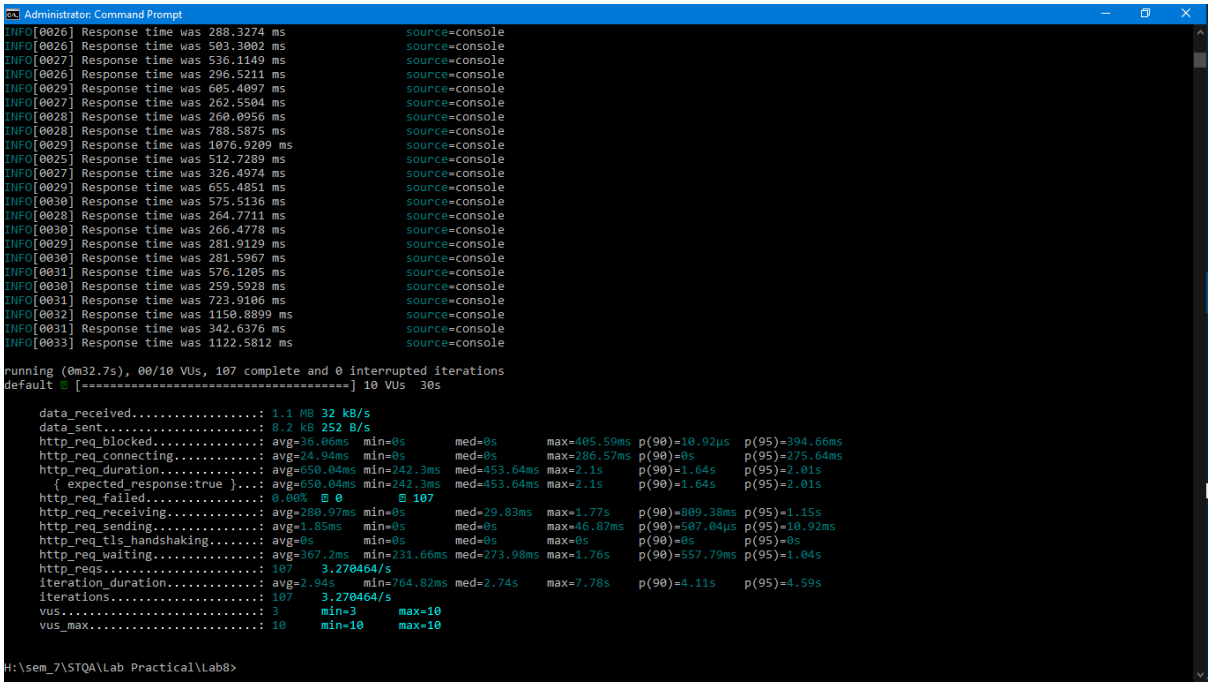
Title: Performance Testing using K6

Script

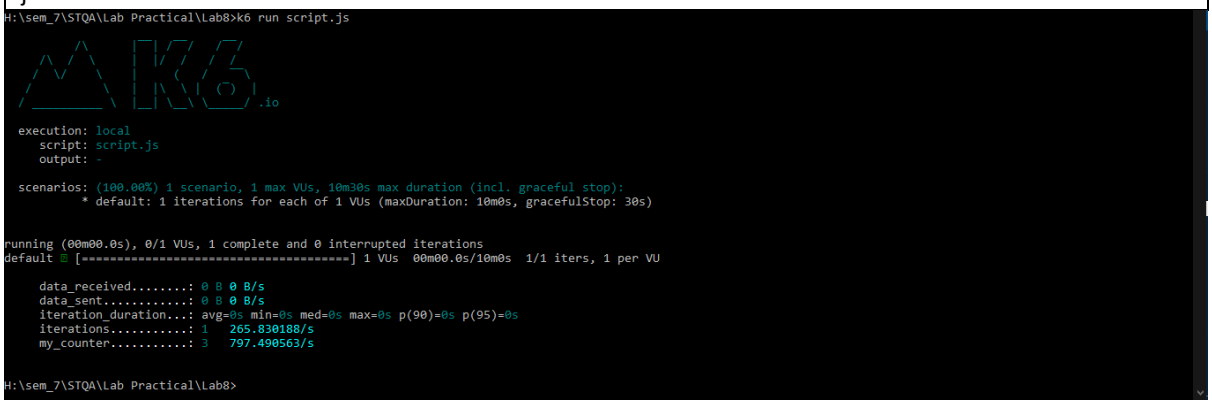
```
import  { check } from "k6";
import http from "k6/http";

export default function(){
        let res = http.get("https://test.loadimpact.com/");
        check(res, {
                "is status 200": (r) => r.status == 200
                });
};
```




```
import http from 'k6/http';

export default function () {
  const res = http.get('http://httpbin.org');
  console.log('Response time was ' + String(res.timings.duration) + ' ms');
}
```




```
import { Counter } from 'k6/metrics';

const myCounter = new Counter('my_counter');

export default function () {
  myCounter.add(1);
  myCounter.add(2);
}
```



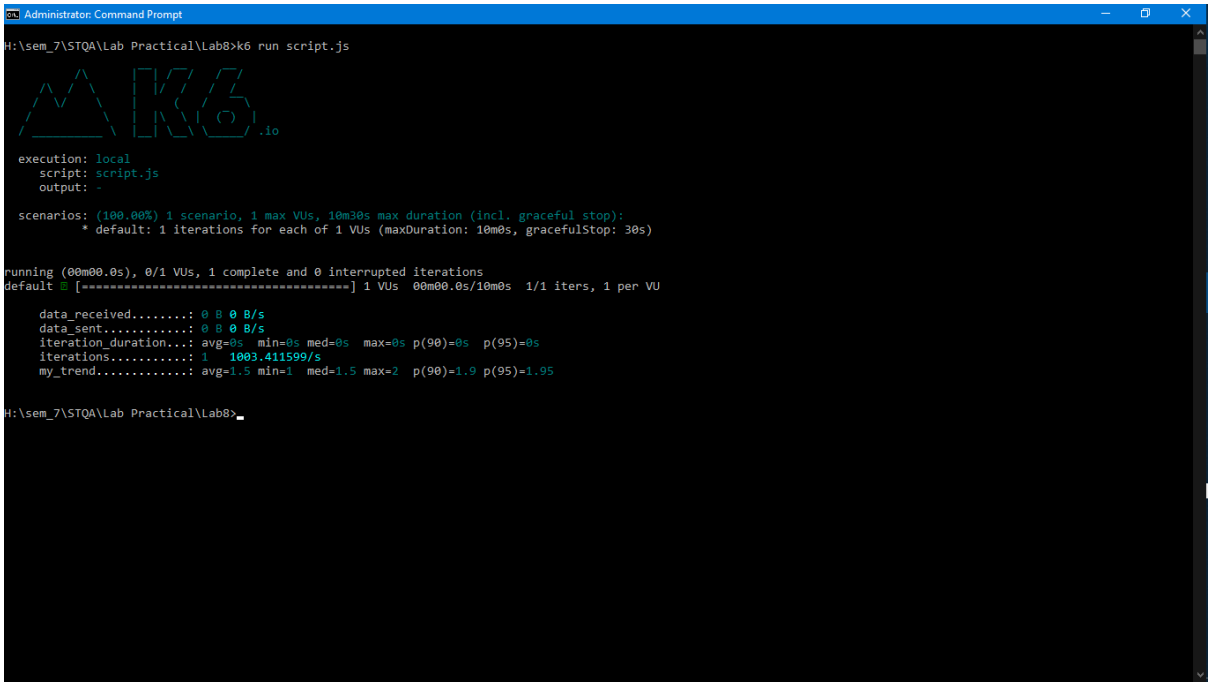

```
import { Gauge } from 'k6/metrics';

const myGauge = new Gauge('my_gauge');

export default function () {
  myGauge.add(3);
  myGauge.add(1);
  myGauge.add(2);
}
```

```
H:\sem_7\STQA\Lab Practical\Lab8>k6 run script.js

  execution: local
     script: script.js
     output: -

  scenarios: (100.00%) 1 scenario, 1 max VUs, 10m30s max duration (incl. graceful stop):
           * default: 1 iterations for each of 1 VUs (maxDuration: 10m0s, gracefulStop: 30s)


running (00m00.0s), 0/1 VUs, 1 complete and 0 interrupted iterations
default ✓ [======================================] 1 VUs  00m00.0s/10m0s  1/1 iters, 1 per VU

     data_received........: 0 B 0 B/s
     data_sent............: 0 B 0 B/s
     iteration_duration...: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
     iterations...........: 1   631.432721/s
     my_gauge.............: 2   min=1       max=3


H:\sem_7\STQA\Lab Practical\Lab8>
```

```
import { Trend } from 'k6/metrics';

const myTrend = new Trend('my_trend');

export default function () {
  myTrend.add(1);
  myTrend.add(2);
}
```

```
Administrator: Command Prompt

H:\sem_7\STQA\Lab Practical\Lab8>k6 run script.js

  execution: local
     script: script.js
     output: -

  scenarios: (100.00%) 1 scenario, 1 max VUs, 10m30s max duration (incl. graceful stop):
           * default: 1 iterations for each of 1 VUs (maxDuration: 10m0s, gracefulStop: 30s)


running (00m00.0s), 0/1 VUs, 1 complete and 0 interrupted iterations
default ✓ [======================================] 1 VUs  00m00.0s/10m0s  1/1 iters, 1 per VU

     data_received........: 0 B 0 B/s
     data_sent............: 0 B 0 B/s
     iteration_duration...: avg=0s  min=0s med=0s  max=0s p(90)=0s  p(95)=0s
     iterations...........: 1   1002.506266/s
     my_trend.............: avg=1.5 min=1  med=1.5 max=2  p(90)=1.9 p(95)=1.95


H:\sem_7\STQA\Lab Practical\Lab8>
```

```
import { Rate } from 'k6/metrics';

const myRate = new Rate('my_rate');

export default function () {
  myRate.add(true);
  myRate.add(false);
  myRate.add(1);
  myRate.add(0);
}
```


Administrator: Command Prompt
H:\sem_7\STQA\Lab Practical\Lab8>k6 run script.js
execution: local
script: script.js
output: -
scenarios: (100.00%) 1 scenario, 1 max VUs, 10m30s max duration (incl. graceful stop):
* default: 1 iterations for each of 1 VUs (maxDuration: 10m0s, gracefulStop: 30s)
running (00m00.0s), 0/1 VUs, 1 complete and 0 interrupted iterations
default [==========] 1 VUs 00m00.0s/10m0s 1/1 iters, 1 per VU
data_received.....: 0 B 0 B/s
data_sent.....: 0 B 0 B/s
iteration_duration...: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
iterations.....: 1 1003.411599/s
my_trend.....: avg=1.5 min=1 med=1.5 max=2 p(90)=1.9 p(95)=1.95
H:\sem_7\STQA\Lab Practical\Lab8>