## Assignment 1 ProblemStatement2 (YARN COMMANDS)

Run MapReduce Program and capture the application Id of the job.

```
127 login: march8lab23
march8lab23@127.0.0.1's password:
Last login: Wed Jul 26 12:20:30 2023 from localhost
[march8lab23@ip-10-1-1-204 ~]$ yarn application --list NARNING: YARN_OPTS has been replaced by HADOOP_OPTS. Using value of YARN_OPTS. 23/07/26 12:46:46 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Total number of applications (application-types: [], states: [SUBMITTED, ACCEPTED, RUNNING] and tags: []):1
                                          Application-Name
                  Application-Id
                                                                      Application-Type
                                                                                                     User
                                                                                                                                                   State
   Final-State
                          Progress
                                                                 Tracking-URL
application_1685754149182_7570
                                                Spark shell
                                                                                    SPARK
                                                                                              dhinkumart58edu root.default
                                                                                                                                                 RUNNING
UNDEFINED 10% http://ip-10-1-1-204.ap-south-1.compute.internal:18088/history/application_1685754149182_7570/1 [march8lab23@ip-10-1-1-204 ~]$ yarn application --list
WARNING: YARN_OPTS has been replaced by HADOOP_OPTS. Using value of YARN_OPTS.
23/07/26 12:47:29 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Total number of applications (application-types: [], states: [SUBMITTED, ACCEPTED, RUNNING] and tags: []):2

Application-Id Application-Name Application-Type User Queue
                                                                      Application-Type
                                                                                                                                                   State
   Final-State
                          Progress
                                                                 Tracking-URL
application_1685754149182_7606
                                                                               MAPREDUCE
                                                 word count
                                                                                              march8lab23
                                                                                                                 root.default
                                                                                                                                                ACCEPTED
     UNDEFINED
                                 9%
                                                                           N/A
application_1685754149182_7570
                                                                                   SPARK
                                                                                              dhinkumart58edu root.default
                                               Spark shell
                                                                                                                                                 RUNNING
                                10% http://ip-10-1-1-204.ap-south-1.compute.internal:18088/history/application_1685754149182_7570/1
     UNDEFINED
```

2. Re-run the MapReduce program and kill the application using the yarn command.

```
at java.security.AccessController.doPrivileged(Native Method)
at javax.security.auth.Subject.doAs(Subject.java:422)
at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1875)
at org.apache.hadoop.ipc.Client.getRpcResponse(Client.java:1499)
at org.apache.hadoop.jpc.Client.call(Client.java:1445)
at org.apache.hadoop.jpc.Client.call(Client.java:1355)
at org.apache.hadoop.jpc.Client.call(Client.java:1355)
at org.apache.hadoop.jpc.ProtobufRpcEnginesInvoker.invoke(ProtobufRpcEngine.java:228)
at org.apache.hadoop.jpc.ProtobufRpcEnginesInvoker.invoke(ProtobufRpcEngine.java:116)
at com.sun.proxy.SProxy13.getBlockLocations(Unknown Source)
at org.apache.hadoop.jpc.protobufRpcEnginesInvoker.invoke(ProtobufRpcEngine.java:116)
at sun.proxy.SProxy13.getBlockLocations(Unknown Source)
at org.apache.hadoop.jo.protocolPB.ClientNamenodeProtocolTranslatorPB.getBlockLocations(ClientNamenodeProtocolTranslatorPB.java:30

i)

at sun.reflect.NativeMethodAccessorImpl.invoke(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:42)
at org.apache.hadoop.io.retry.RetryInvocationHandler.java:429)
at org.apache.hadoop.io.retry.RetryInvocationHandler.invokeMethod(RetryInvocationHandler.java:155)
at org.apache.hadoop.io.retry.RetryInvocationHandlerScall.invoke(RetryInvocationHandler.java:157)
at org.apache.hadoop.io.retry.RetryInvocationHandlerScall.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.RetryInvocationHandlerScall.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.RetryInvocationHandlerScall.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.RetryInvocationHandler.invoke(RetryInvocationHandler.java:159)
at org.apache.hadoop.io.retry.Ret
```

3. List all the applications which are RUNNING state

```
VARN_OPTS has been replaced by HADOOP_OPTS. Using value of VARN_OPTS.
13/87/26 12:59:29 TNFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Exception in thread "main" java.lang.IllegalArgumentException: Invalid ApplicationId prefix: _. The valid ApplicationId should start with prefix application
at org. apache.hadoop.yarn.api.records.ApplicationCLI.killApplication(ApplicationCLI.java:605)
at org. apache.hadoop.yarn.client.cli.ApplicationCLI.killApplication(ApplicationCLI.java:505)
at org. apache.hadoop.yarn.client.cli.ApplicationCLI.run(ApplicationCLI.java:293)
at org. apache.hadoop.util.ToolRunner.run(ToolRunner.java:76)
at org. apache.hadoop.util.ToolRunner.run(ToolRunner.java:90)
at org. apache.hadoop.yarn.client.cli.ApplicationCLI.main(ApplicationCLI.java:102)
[march8lab23@ip-10-1-1-204 ~]$ yarn application --kill application_1685754149182_7608
admNING: YARN_OPTS has been replaced by HADOOP_OPTS. Using value of YARN_OPTS.
13/07/26 12:50:41 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
Application application_1685754149182_7608 has already finished
[march8lab23@ip-10-1-1-204 ~]$ yarn application of ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
13/07/26 12:52:17 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.internal/10.1.1.204:8032
13/07/26 12:52:17 INFO impl.YarnClientImpl: Killed application application infe85754149182_7609
[march8lab23@ip-10-1-1-204 ~]$ yarn application --list --appStates RUNNING
4NNING: YARN_OPTS has been replaced by HADOOP_OPTS. Using value of YARN_OPTS.
13/07/26 12:52:17 INFO impl.YarnClientImpl: Killed application application infe85754149182_7609

[march8lab23@ip-10-1-1-204 ~]$ yarn application--Pixer RUNNING
4NNING: YARN_OPTS has been replaced by HADOOP_OPTS. Using value of YARN_OPTS.
13/07/26 12:55:14 INFO client.RMProxy: Connecting to ResourceManager at ip-10-1-1-204.ap-south-1.compute.i
```

## 4. View the logs of any of the jobs which are already completed.

End of LogType:stdout	
<pre>ind of LogType:prelaunch.err</pre>	
Container: container_1685754149182_7612_01_000022 on ip-10-1-2-40.ap-south-1.compute.internal_804: .ogAggregationType: AGGREGATED .ogType:prelaunch.out .ogType:prelaunch.out .ogLastModifiedTime:Wed Jul 26 12:56:03 +0000 2023 .ogLength:70 .ogContents: ietting up env variables ietting up iob resources .aunching container	
<pre>ind of LogType:prelaunch.out</pre>	
<pre>ind of LogType:stderr</pre>	
Ind of LogType:stdout	
[march8lab23@ip-10-1-1-204 ~]\$	