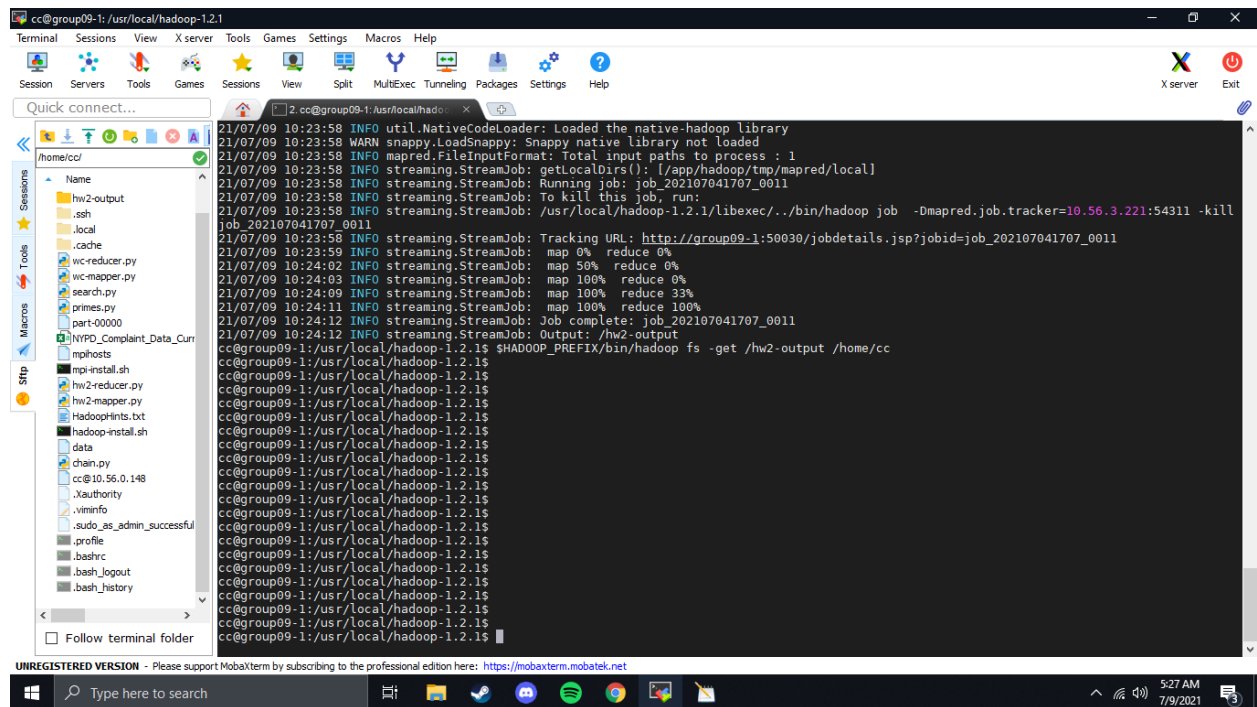


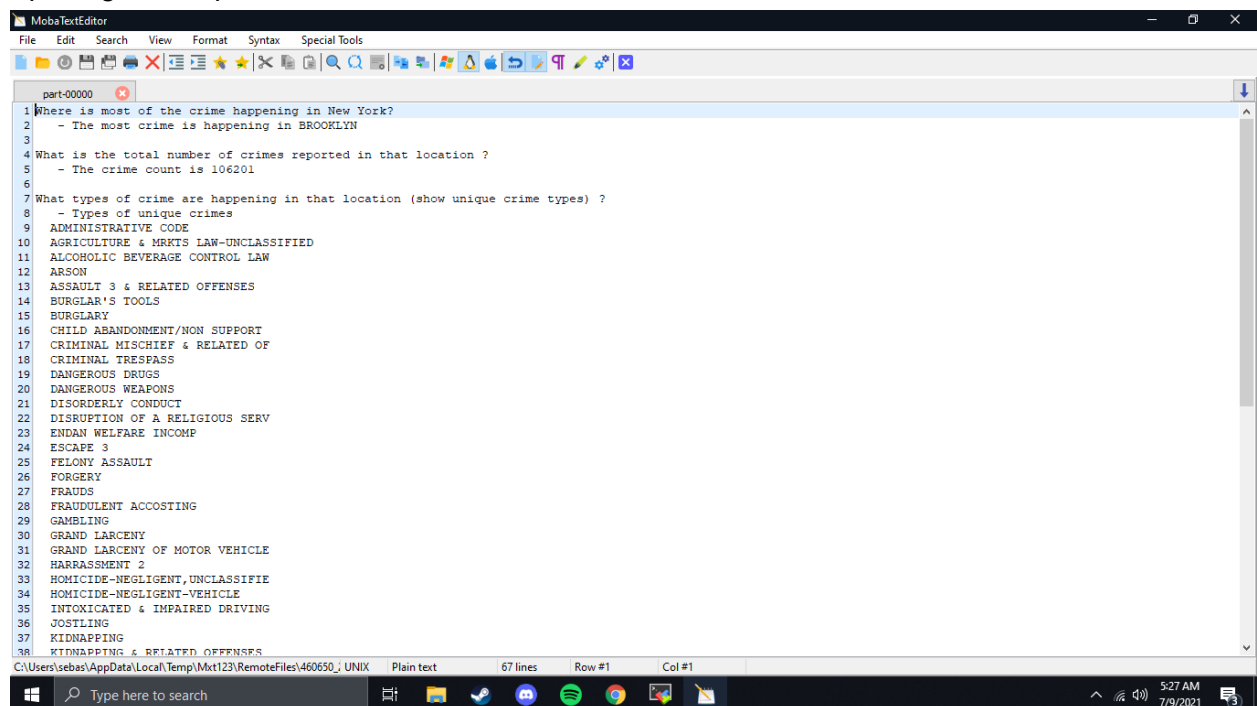
A PDF report that includes:

a. Representative Screenshots of the console output when you execute your programs.



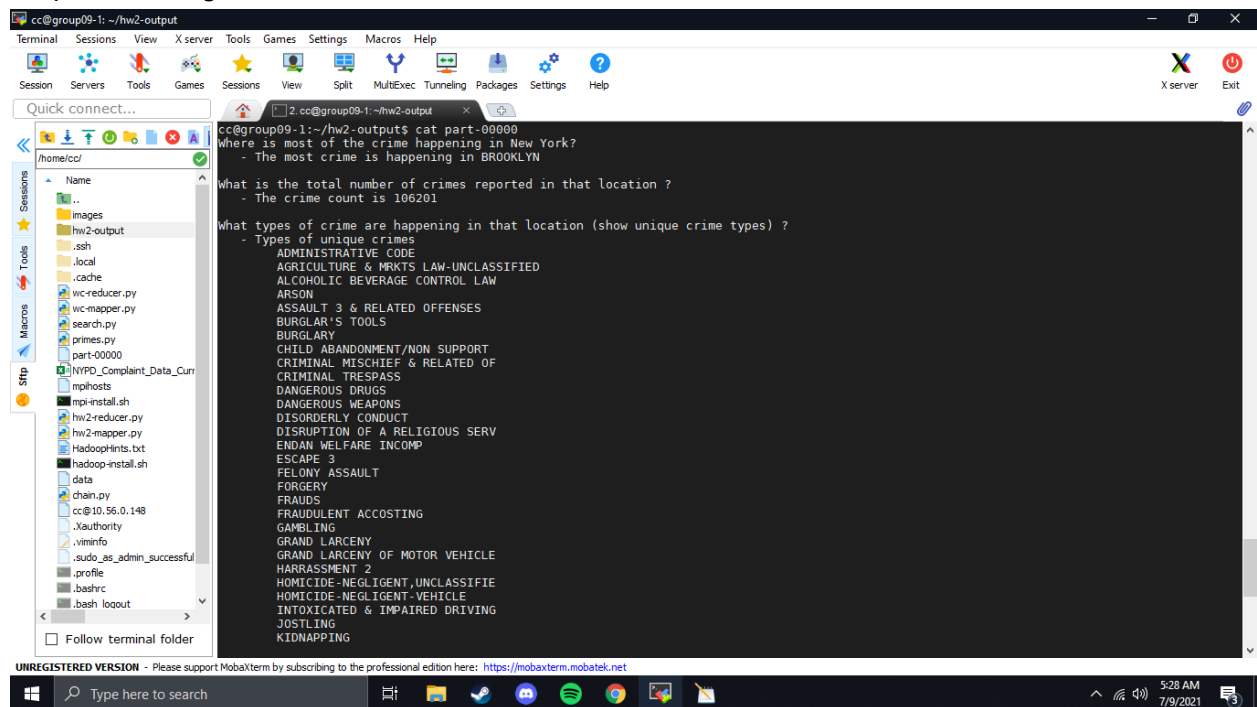
The screenshot shows a terminal window with a file explorer on the left and a terminal pane on the right. The file explorer shows a directory structure with files like `hadoop-install.sh`, `hadoop-mapreduce.jar`, and `hadoop-yarn.jar`. The terminal pane shows the output of a Hadoop job, including logs for `util.NativeCodeLoader`, `snappy.LoadSnappy`, and `mapred.FileInputFormat`. The job is running on a cluster with 10 nodes. The output shows the job is complete and the output files are located at `/usr/local/hadoop-1.2.1/output`.

Opening the output file



The screenshot shows a text editor window displaying the output of a Hadoop job. The output is a list of crime types and their counts, including `ADMINISTRATIVE CODE`, `AGRICULTURE & MKRTS LAN-UNCLASSIFIED`, `ALCOHOLIC BEVERAGE CONTROL LAW`, `ARSON`, `ASSAULT 3 & RELATED OFFENSES`, `BURGLAR'S TOOLS`, `BURGLARY`, `CHILD ABANDONMENT/NON SUPPORT`, `CRIMINAL MISCHIEF & RELATED OF`, `CRIMINAL TRESPASS`, `DANGEROUS DRUGS`, `DANGEROUS WEAPONS`, `DISORDERLY CONDUCT`, `DISRUPTION OF A RELIGIOUS SERV`, `ENDAN WELFARE INCOMP`, `ESCAPE 3`, `FELONY ASSAULT`, `FORGERY`, `FRAUDS`, `FRAUDULENT ACCOSTING`, `GAMBLING`, `GRAND LARCENY`, `GRAND LARCENY OF MOTOR VEHICLE`, `HARRASSMENT 2`, `HOMICIDE-NEGLIGENT, UNCLASSIFIE`, `HOMICIDE-NEGLIGENT-VEHICLE`, `INTOXICATED & IMPAIRED DRIVING`, `JOSTLING`, `KIDNAPPING`, and `KIDNAPPING & RELATED OFFENSES`.

Output file using cat



```
cc@group09-1: ~/hw2-output
cc@group09-1:~/hw2-output$ cat part-00000
Where is most of the crime happening in New York?
- The most crime is happening in BROOKLYN

What is the total number of crimes reported in that location ?
- The crime count is 106201

What types of crime are happening in that location (show unique crime types) ?
- Types of unique crimes
  ADMINISTRATIVE CODE
  AGRICULTURE & MRKTS LAW-UNCLASSIFIED
  ALCOHOLIC BEVERAGE CONTROL LAW
  ARSON
  ASSAULT 3 & RELATED OFFENSES
  BURGLAR'S TOOLS
  BURGLARY
  CHILD ABANDONMENT/NON SUPPORT
  CRIMINAL MISCHIEF & RELATED OF
  CRIMINAL TRESPASS
  DANGEROUS DRUGS
  DANGEROUS WEAPONS
  DISORDERLY CONDUCT
  DISRUPTION OF A RELIGIOUS SERV
  ENDAN WELFARE INCOMP
  ESCAPE 3
  FELONY ASSAULT
  FORGERY
  FRAUDS
  FRAUDULENT ACCOSTING
  GAMBLING
  GRAND LARCENY
  GRAND LARCENY OF MOTOR VEHICLE
  HARRASSMENT 2
  HOMICIDE-NEGLIGENT,UNCLASSIFIE
  HOMICIDE-NEGLIGENT-VEHICLE
  INTOXICATED & IMPAIRED DRIVING
  JOSTLING
  KIDNAPPING
```

b. Describe how the work was divided among your group members.

Sebastian Klemkosky: Started and worked on the assignment 2 and was able to finish it

Josue Chio: Reduced redundancy of code, cleaned up code and output