Name: Aneesh Partha CWID- A20376172

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Part 0:

Introduction is copied from discussion board and pasted into a file called READme.md which is cloned from the github repository.

Once photo and information was added the file was pushed to github using the below commands

1.git add READme.md

2.git commit -m “Adding introduction to readme”

3.git push

Below is the content which was updated in the READme.md file.

```
##**INTRODUCTION**

I am Aneesh Partha from Tamilnadu,India. I have an software experience of 3 years and i am very happy to pursue my masters since this gives me a different experience and exposure.

In the past I did not get an opportunity to work as a developer but i am passionate about coding. I have a decent knowledge on working with Linux and Unix operating systems.

To tell about myself i love playing keyboard and i have passed examinations with distinction conducted by Trinity musical college , London.

![aneeshp487](https://cloud.githubusercontent.com/assets/17997235/22183593/67346f9a-e087-11e6-854c-54cdeb01e364.jpg)
```

Below picture is the output of the above lines:

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ITMD – 521	Assignment - 1

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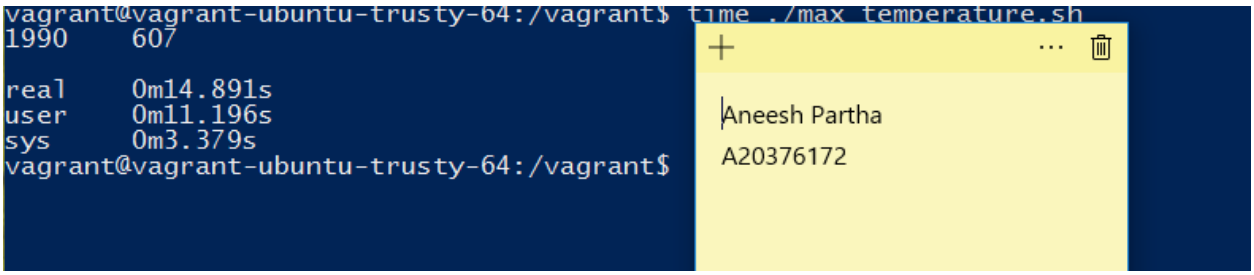
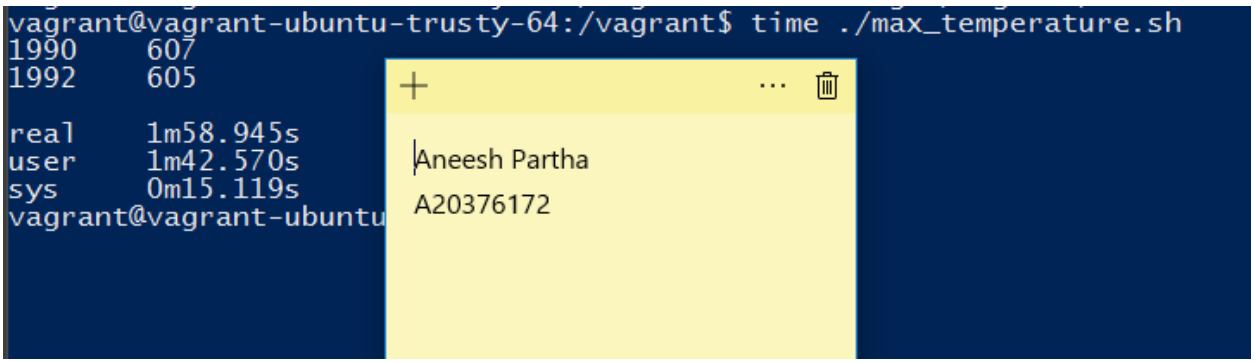
Part 1:

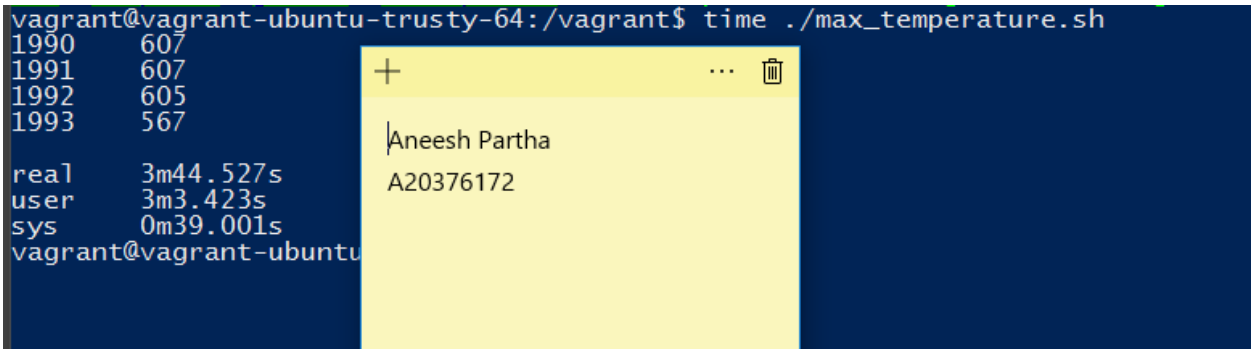
Result of maximum temperature script triggered for 1990.gz



Result of maximum temperature script triggered for 1990.gz and 1992.gz



Result of maximum temperature script triggered for 1990.gz , 1991.gz , 1992.gz and 1993.gz



Analysis between output of 3 different time

Dataset	real	user	sys
1990	15	13	2
1990 and 1992	118	102	15
1990 , 1991 , 1992 and 1993	224	183	39

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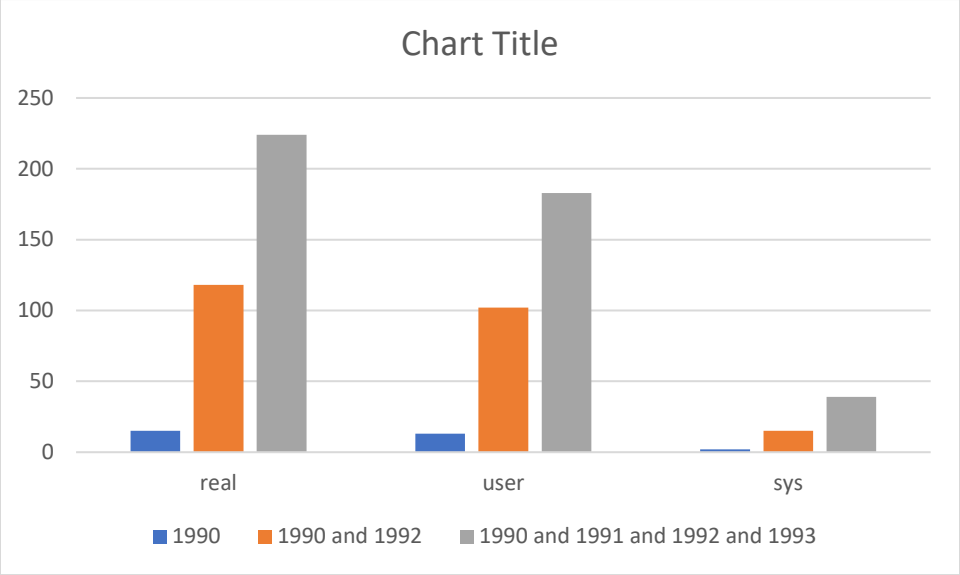

The “Time” keyword included with a command gives us the time taken for the action to take place. In this case we have triggered the script max_temperature.sh which takes a file as input and gives out maximum value of temperature available in the file.

The above graph shows the time consumed for different data sets. Real time is the actual time the script has taken to read all the lines in the file and then identify the maximum temperature. As we can see the time taken for reading 4 different datasets is more than for reading a single dataset or two. This clearly shows that time taken is directly proportional to the size of the data. As data size increases the time taken for reading and manipulating the data also increases.

Real time is always greater than the user and sys time. User time is the amount of CPU time spent on user mode. All the time that is real user and sys is greater for the large datasets and less for small data sets.

RAM – 4GB

CPU - 4

Part 2:

Data set 1 :

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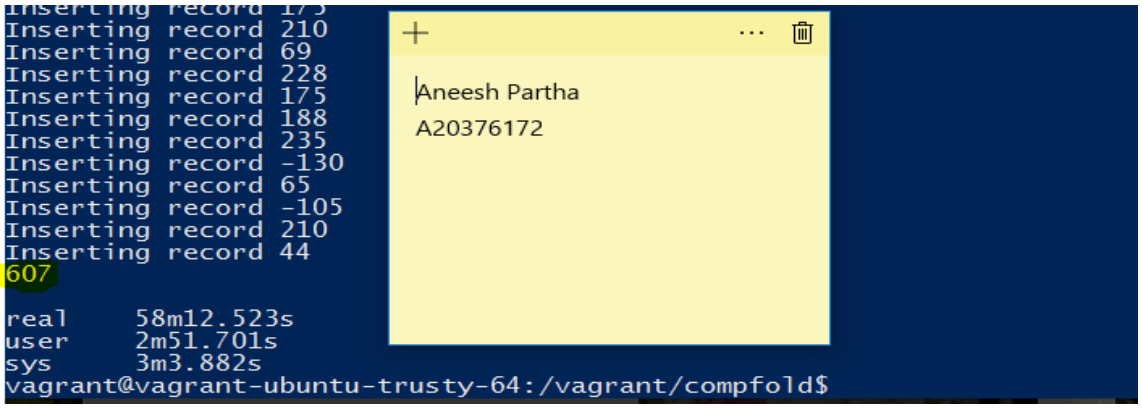
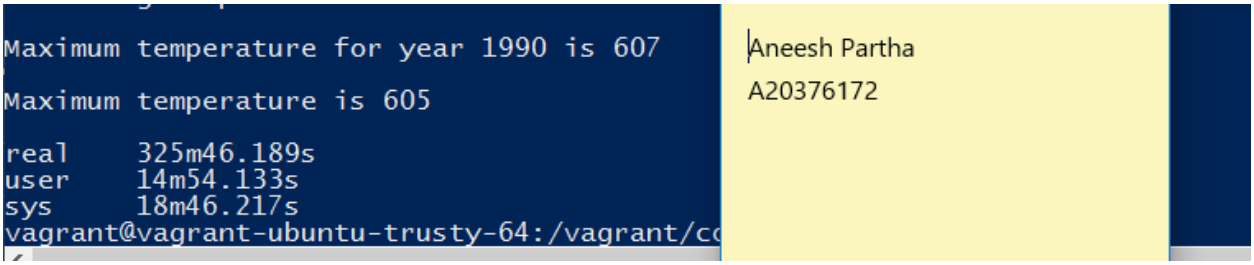
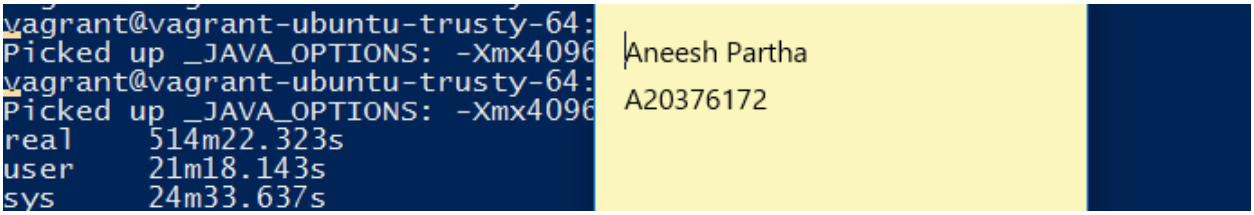


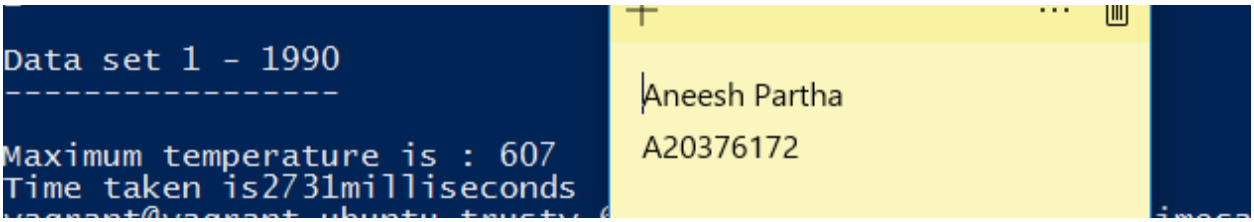
Data set 2 :



Data set 3:



Time taken by data set 1:



Time taken by data set 2:

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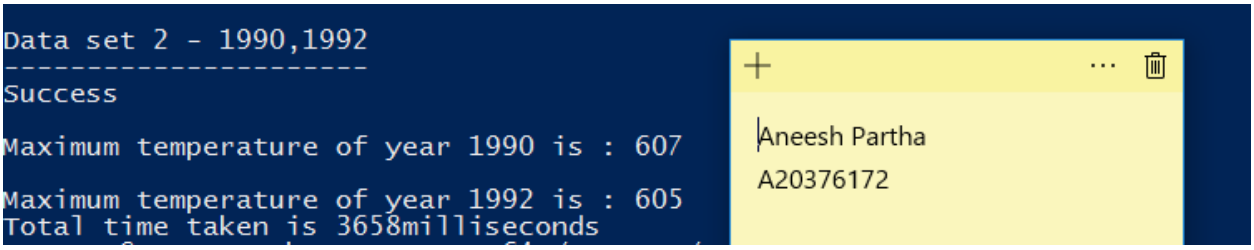


Time taken by data set 3:

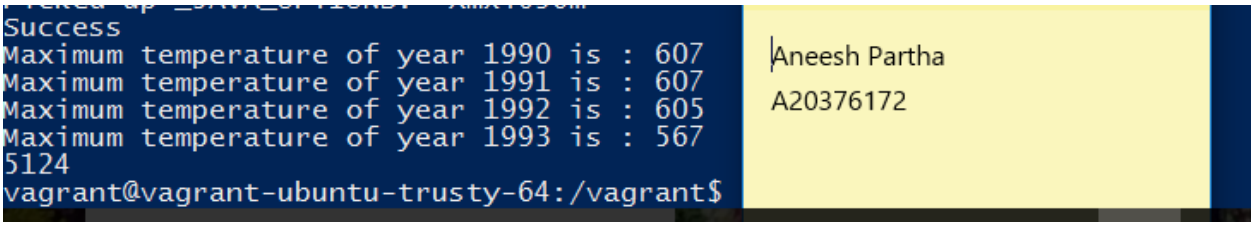
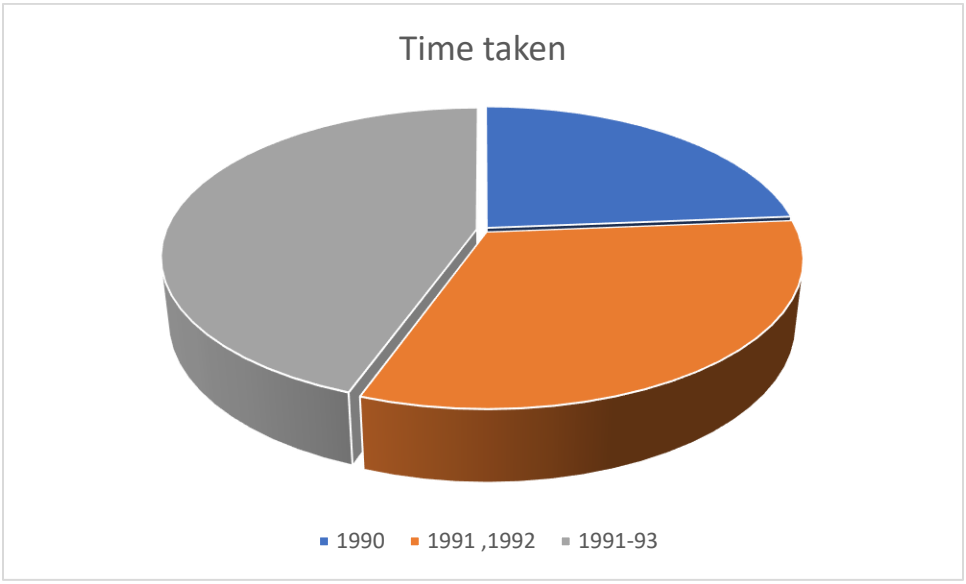


Table showing the time taken for querying the maximum temperature in milliseconds.

Year	Time taken
1990	2731
1991 ,1992	3658
1991-93	5124



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From the graph we can conclude that when the dataset is large the entries in database will be more which will result in more time for querying the database. As we can see in the above diagram data set 3 has consumed more time when compared to data set 2 and data set 1. Data set 1 is the least since it involves data of only the year 1990.

RAM – 4GB

CPU - 4