

Lab 6 Assignment

Q1)

i)

a)

```
#!/usr/bin/awk -f
{print $1 " " $2 " " $5}
```

b)

```
#!/usr/bin/awk -f
{if (NR<5){print $1 " " $2 " " $5}}
```

c)

```
#!/usr/bin/awk -f
{if (NR==7){print $1 " " $2 " " $5}}
```

ii)

```
#!/usr/bin/awk -f
{if (NR>1 && NR<8){print $1 " " $3+$4+$5}}
```

iii)

```
#!/usr/bin/awk -f
BEGIN {max=0; topper="AA"} {if (NR>1 && NR<8 && ($3+$4+$5)>max) { topper=$1;
max=$3+$4+$5;}} END {print topper}
```

```
awk 'NR!=1 {x+=$3+$4+$5; lst[NR]=$0; temp[NR]=$3+$4+$5} END{x=x/6; for (i=1;i<=NR;i++){if
(lst[i]>=x) {print c[i]}}}'
```

iv)

```
#!/usr/bin/awk -f
BEGIN {sum=0; avg=0} {if (NR>1 && NR<8) {sum+=$3+$4}} END {avg=sum/6; print avg}
```

v)

```
#!/usr/bin/awk -f
BEGIN {sum=0; avg=0} {if (NR>1 && NR<8) {sum+=$5}} END {avg=sum/6; print avg}
```

Q2)

i)

```
#!/usr/bin/awk -f
BEGIN { FPAT = "([^\,]*)|(\"[^\"]\"+|\\")"; totalvotes=0} {totalvotes+=$21} END {print totalvotes}
```

ii)

```
#!/usr/bin/awk -f
BEGIN { FPAT = "([^\,]*)|(\"[^\"]\"+\\")"; row=0} {if (NR>1 && $12=="European, Asian, Indian")
{print $row}}
```

iii)

```
#!/usr/bin/awk -f
BEGIN { FPAT = "([^\,]*)|(\"[^\"]\"+\\")"; row=0} {if (NR>1 && $19=="Dark Green") {print $row}}
```

iv) `awk '{ FPAT = "([^\,]*)|(\"[^\"]\"+\\")"; print $20}' lab6assignmentdata_20236.csv | sort | uniq`

v)

```
#!/usr/bin/awk -f
BEGIN { FPAT = "([^\,]*)|(\"[^\"]\"+\\")"; row=0} {if (NR>1 && $20=="Excellent") {print $row}}
```