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REGISTER NO.: 20BCE1798

COURSE NAME: FOUNDATIONS OF DATA ANALYTICS

COURSE CODE: CSE3505

DATE: 11TH AUGUST, 2022

LAB-3

```
> df<-data.frame(face=c("ace","two","six"),suit=c("clubs","spade","heart"),value=c(1,2,3))

> df

  face  suit value
1 ace clubs    1
2 two spade    2
3 six heart    3

> typeof(df)

[1] "list"

> class(df)

[1] "data.frame"

> str(df)

'data.frame':   3 obs. of  3 variables:

 $ face : chr "ace" "two" "six"
 $ suit : chr "clubs" "spade" "heart"
 $ value: num 1 2 3

> eg1<-
(data.frame(Std_id=1:5,name=c("Ansh","Aman","Sidhant","Anish","Kashish"),mark1=c(40,45,47,48,49),mark2=
c(41,43,45,47,49),mark3=c(39,37,35,33,31),
+
mark4=c(29,27,25,23,21),mark5=c(50,49,48,47,46)))

> my_eg1<-subset(eg1)

> my_eg1

 Std_id  name mark1 mark2 mark3 mark4 mark5
1     1 Ansh   40    41    39    29    50
2     2 Aman   45    43    37    27    49
3     3 Sidhant 47    45    35    25    48
```

```

4 4 Anish 48 47 33 23 47
5 5 Kashish 49 49 31 21 46

> View(my_eg1)

> my_eg1$total<-rowSums(my_eg1[3:7])

> my_eg1

Std_id name mark1 mark2 mark3 mark4 mark5 total
1 1 Ansh 40 41 39 29 50 199
2 2 Aman 45 43 37 27 49 201
3 3 Sidhant 47 45 35 25 48 200
4 4 Anish 48 47 33 23 47 198
5 5 Kashish 49 49 31 21 46 196

> max(my_eg1$total)

[1] 201

> which.max((my_eg1$total))

[1] 2

> my_eg1$avg<-rowMeans(my_eg1[3:7])

> my_eg1

Std_id name mark1 mark2 mark3 mark4 mark5 total avg
1 1 Ansh 40 41 39 29 50 199 39.8
2 2 Aman 45 43 37 27 49 201 40.2
3 3 Sidhant 47 45 35 25 48 200 40.0
4 4 Anish 48 47 33 23 47 198 39.6
5 5 Kashish 49 49 31 21 46 196 39.2

> getwd()

[1] "C:/Users/91981/OneDrive/Documents"

> write.csv(my_eg1,"mark1.csv")
> write.csv(my_eg1,"mark1.csv",row.names = FALSE)

```

	A	B	C	D	E	F	G	H	I
1	Std_id	name	mark1	mark2	mark3	mark4	mark5	total	avg
2	1	Ansh	40	41	39	29	50	199	39.8
3	2	Aman	45	43	37	27	49	201	40.2
4	3	Sidhant	47	45	35	25	48	200	40
5	4	Anish	48	47	33	23	47	198	39.6
6	5	Kashish	49	49	31	21	46	196	39.2
7									

Question 1

Define a table with the same type within a column and different types columns. Use `data.frame()` function.

```
> q2<-  
data.frame(integers=c(1,2,3,4),characters=c('a','b','c','d'),floats=c(1.0,2.0,3.0,4.0),strings=c("Ansh","Akshit","Ayan","Saksham"))
```

```
> q2
```

integers characters floats strings

1	1	a	1	Ansh
2	2	b	2	Akshit
3	3	c	3	Ayan
4	4	d	4	Saksham

```
> q2  
integers characters floats strings  
1 1 a 1 Ansh  
2 2 b 2 Akshit  
3 3 c 3 Ayan  
4 4 d 4 Saksham
```

Question 2

Load mtcars dataset. View the data from mtcars. Select mpg, disp and hp. Create a new variable by summing the columns hp and disp. Combine all to create a new table mtcars1. Select rows 4 to 10 to create a new table mtcars2.

Ans.

```
> #Q3)
> data(mtcars)
> cars<-mtcars
> mtcars
      mpg cyl  disp  hp drat    wt  qsec vs am gear carb
Mazda RX4     21.0   6 160.0 110 3.90 2.620 16.46  0  1    4    4
Mazda RX4 Wag 21.0   6 160.0 110 3.90 2.875 17.02  0  1    4    4
Datsun 710    22.8   4 108.0  93 3.85 2.320 18.61  1  1    4    1
Hornet 4 Drive 21.4   6 258.0 110 3.08 3.215 19.44  1  0    3    1
Hornet Sportabout 18.7   8 360.0 175 3.15 3.440 17.02  0  0    3    2
Valiant     18.1   6 225.0 105 2.76 3.460 20.22  1  0    3    1
Duster 360    14.3   8 360.0 245 3.21 3.570 15.84  0  0    3    4
Merc 240D     24.4   4 146.7  62 3.69 3.190 20.00  1  0    4    2
Merc 230      22.8   4 140.8  95 3.92 3.150 22.90  1  0    4    2
Merc 280      19.2   6 167.6 123 3.92 3.440 18.30  1  0    4    4
Merc 280C     17.8   6 167.6 123 3.92 3.440 18.90  1  0    4    4
Merc 450SE     16.4   8 275.8 180 3.07 4.070 17.40  0  0    3    3
Merc 450SL     17.3   8 275.8 180 3.07 3.730 17.60  0  0    3    3
Merc 450SLC    15.2   8 275.8 180 3.07 3.780 18.00  0  0    3    3
Cadillac Fleetwood 10.4   8 472.0 205 2.93 5.250 17.98  0  0    3    4
Lincoln Continental 10.4   8 460.0 215 3.00 5.424 17.82  0  0    3    4
Chrysler Imperial 14.7   8 440.0 230 3.23 5.345 17.42  0  0    3    4
Fiat 128       32.4   4  78.7  66 4.08 2.200 19.47  1  1    4    1
Honda Civic    30.4   4  75.7  52 4.93 1.615 18.52  1  1    4    2
Toyota Corolla 33.9   4  71.1  65 4.22 1.835 19.90  1  1    4    1
Toyota Corona   21.5   4 120.1  97 3.70 2.465 20.01  1  0    3    1
Dodge Challenger 15.5   8 318.0 150 2.76 3.520 16.87  0  0    3    2
AMC Javelin     15.2   8 304.0 150 3.15 3.435 17.30  0  0    3    2
Camaro Z28      13.3   8 350.0 245 3.73 3.840 15.41  0  0    3    4
Pontiac Firebird 19.2   8 400.0 175 3.08 3.845 17.05  0  0    3    2
Fiat X1-9        27.3   4  79.0  66 4.08 1.935 18.90  1  1    4    1
Porsche 914-2    26.0   4 120.3  91 4.43 2.140 16.70  0  1    5    2
Lotus Europa    30.4   4  95.1 113 3.77 1.513 16.90  1  1    5    2
Ford Pantera L   15.8   8 351.0 264 4.22 3.170 14.50  0  1    5    4
Ferrari Dino     19.7   6 145.0 175 3.62 2.770 15.50  0  1    5    6
Maserati Bora    15.0   8 301.0 335 3.54 3.570 14.60  0  1    5    8
Volvo 142E       21.4   4 121.0 109 4.11 2.780 18.60  1  1    4    2
```



```
> names(mtcars)
[1] "mpg"   "cyl"   "disp"  "hp"    "drat"  "wt"    "qsec" "vs"    "am"
[10] "gear"  "carb"
```

```
> View(mtcars)
```

The screenshot shows the RStudio interface with the 'mtcars' dataset loaded into a data viewer. The window title is 'mtcars'. The data is presented as a table with 32 rows and 11 columns. The columns are labeled: mpg, cyl, disp, hp, drat, wt, qsec, vs, am, gear, and carb. The first few rows show data for various car models like Mazda RX4, Datsun 710, Hornet 4 Drive, etc. The data viewer includes a toolbar with icons for back, forward, and filter, and a 'Filter' button.

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1
Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0	3	4
Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0	4	2
Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0	4	2
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0	4	4
Merc 280C	17.8	6	167.6	123	3.92	3.440	18.90	1	0	4	4
Merc 450SE	16.4	8	275.8	180	3.07	4.070	17.40	0	0	3	3
Merc 450SL	17.3	8	275.8	180	3.07	3.730	17.60	0	0	3	3
Merc 450SLC	15.2	8	275.8	180	3.07	3.780	18.00	0	0	3	3
Cadillac Fleetwood	10.4	8	472.0	205	2.93	5.250	17.98	0	0	3	4
Lincoln Continental	10.4	8	460.0	215	3.00	5.424	17.82	0	0	3	4
Chrysler Imperial	14.7	8	440.0	230	3.23	5.345	17.42	0	0	3	4
Fiat 128	32.4	4	78.7	66	4.08	2.200	19.47	1	1	4	1
Honda Civic	30.4	4	75.7	52	4.93	1.615	18.52	1	1	4	2
Toyota Corolla	33.9	4	71.1	65	4.22	1.835	19.90	1	1	4	1
Toyota Corona	21.5	4	120.1	97	3.70	2.465	20.01	1	0	3	1
Dodge Challenger	15.5	8	318.0	150	2.76	3.520	16.87	0	0	3	2
AMC Javelin	15.2	8	304.0	150	3.15	3.435	17.30	0	0	3	2
Camaro Z28	13.3	8	350.0	245	3.73	3.840	15.41	0	0	3	4

```
> cars$mpg  
[1] 21.0 21.0 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 17.8 16.4 17.3  
[14] 15.2 10.4 10.4 14.7 32.4 30.4 33.9 21.5 15.5 15.2 13.3 19.2 27.3  
[27] 26.0 30.4 15.8 19.7 15.0 21.4  
> cars$disp  
[1] 160.0 160.0 108.0 258.0 360.0 225.0 360.0 146.7 140.8 167.6 167.6  
[12] 275.8 275.8 275.8 472.0 460.0 440.0 78.7 75.7 71.1 120.1 318.0  
[23] 304.0 350.0 400.0 79.0 120.3 95.1 351.0 145.0 301.0 121.0  
> cars$hp  
[1] 110 110 93 110 175 105 245 62 95 123 123 180 180 180 205 215 230  
[18] 66 52 65 97 150 150 245 175 66 91 113 264 175 335 109
```

```

> cars$sum=cars$hp+cars$disp
> mtcars01<-cars
> mtcars01
      mpg cyl disp hp drat wt qsec vs am gear carb
Mazda RX4     21.0   6 160.0 110 3.90 2.620 16.46 0 1 4 4
Mazda RX4 Wag 21.0   6 160.0 110 3.90 2.875 17.02 0 1 4 4
Datsun 710    22.8   4 108.0  93 3.85 2.320 18.61 1 1 4 1
Hornet 4 Drive 21.4   6 258.0 110 3.08 3.215 19.44 1 0 3 1
Hornet Sportabout 18.7   8 360.0 175 3.15 3.440 17.02 0 0 3 2
Valiant       18.1   6 225.0 105 2.76 3.460 20.22 1 0 3 1
Duster 360    14.3   8 360.0 245 3.21 3.570 15.84 0 0 3 4
Merc 240D     24.4   4 146.7  62 3.69 3.190 20.00 1 0 4 2
Merc 230      22.8   4 140.8  95 3.92 3.150 22.90 1 0 4 2
Merc 280      19.2   6 167.6 123 3.92 3.440 18.30 1 0 4 4
Merc 280C     17.8   6 167.6 123 3.92 3.440 18.90 1 0 4 4
Merc 450SE     16.4   8 275.8 180 3.07 4.070 17.40 0 0 3 3
Merc 450SL     17.3   8 275.8 180 3.07 3.730 17.60 0 0 3 3
Merc 450SLC    15.2   8 275.8 180 3.07 3.780 18.00 0 0 3 3
Cadillac Fleetwood 10.4   8 472.0 205 2.93 5.250 17.98 0 0 3 4
Lincoln Continental 10.4   8 460.0 215 3.00 5.424 17.82 0 0 3 4
Chrysler Imperial 14.7   8 440.0 230 3.23 5.345 17.42 0 0 3 4
Fiat 128      32.4   4  78.7  66 4.08 2.200 19.47 1 1 4 1
Honda Civic    30.4   4  75.7  52 4.93 1.615 18.52 1 1 4 2
Toyota Corolla 33.9   4  71.1  65 4.22 1.835 19.90 1 1 4 1
Toyota Corona   21.5   4 120.1  97 3.70 2.465 20.01 1 0 3 1
Dodge Challenger 15.5   8 318.0 150 2.76 3.520 16.87 0 0 3 2
AMC Javelin    15.2   8 304.0 150 3.15 3.435 17.30 0 0 3 2
Camaro z28     13.3   8 350.0 245 3.73 3.840 15.41 0 0 3 4
Pontiac Firebird 19.2   8 400.0 175 3.08 3.845 17.05 0 0 3 2
Fiat X1-9       27.3   4  79.0  66 4.08 1.935 18.90 1 1 4 1
Porsche 914-2    26.0   4 120.3  91 4.43 2.140 16.70 0 1 5 2
Lotus Europa    30.4   4  95.1 113 3.77 1.513 16.90 1 1 5 2
Ford Pantera L  15.8   8 351.0 264 4.22 3.170 14.50 0 1 5 4
Ferrari Dino    19.7   6 145.0 175 3.62 2.770 15.50 0 1 5 6
Maserati Bora   15.0   8 301.0 335 3.54 3.570 14.60 0 1 5 8
Volvo 142E      21.4   4 121.0 109 4.11 2.780 18.60 1 1 4 2

```

```

> mtcars02<-cars[4:10,]
> mtcars02
      mpg cyl disp hp drat wt qsec vs am gear carb
Hornet 4 Drive 21.4   6 258.0 110 3.08 3.215 19.44 1 0 3 1
Hornet Sportabout 18.7   8 360.0 175 3.15 3.440 17.02 0 0 3 2
Valiant       18.1   6 225.0 105 2.76 3.460 20.22 1 0 3 1
Duster 360    14.3   8 360.0 245 3.21 3.570 15.84 0 0 3 4
Merc 240D     24.4   4 146.7  62 3.69 3.190 20.00 1 0 4 2
Merc 230      22.8   4 140.8  95 3.92 3.150 22.90 1 0 4 2
Merc 280      19.2   6 167.6 123 3.92 3.440 18.30 1 0 4 4
      sum
Hornet 4 Drive 368.0
Hornet Sportabout 535.0
Valiant       330.0
Duster 360    605.0
Merc 240D     208.7
Merc 230      235.8
Merc 280      290.6

```

Question 3

Create a new table subset3 which has the mpg and cyl columns and all rows where mpg>18.

```
> subset1<-mtcars[,c(1,2)]
> subset1
      mpg cyl
Mazda RX4     21.0   6
Mazda RX4 Wag 21.0   6
Datsun 710    22.8   4
Hornet 4 Drive 21.4   6
Hornet Sportabout 18.7   8
Valiant      18.1   6
Duster 360    14.3   8
Merc 240D     24.4   4
Merc 230      22.8   4
Merc 280      19.2   6
Merc 280C     17.8   6
Merc 450SE     16.4   8
Merc 450SL     17.3   8
Merc 450SLC    15.2   8
Cadillac Fleetwood 10.4   8
Lincoln Continental 10.4   8
Chrysler Imperial 14.7   8
Fiat 128      32.4   4
Honda Civic    30.4   4
Toyota Corolla 33.9   4
Toyota Corona   21.5   4
Dodge Challenger 15.5   8
AMC Javelin    15.2   8
Camaro Z28     13.3   8
Pontiac Firebird 19.2   8
Fiat X1-9      27.3   4
Porsche 914-2   26.0   4
Lotus Europa    30.4   4
Ford Pantera L 15.8   8
Ferrari Dino    19.7   6
Maserati Bora   15.0   8
Volvo 142E     21.4   4
```

```
> subset2<-subset(mtcars,select = c())
> subset2
data frame with 0 columns and 32 rows
```

Question 4

Create a dataframe that contains 5 columns- Maths, Physics, Chemistry, Biology and History. There should be a maximum of 20 records of student marks.

```
> #Q5)
> q5<-read.csv("Q5_FDA_LAB3.csv")
> q5
  i..s.no.      Name Physics Chemistry Biology Maths History
1          1     Ansh     91       89      71     90     91
2          2   Saksham     92       88      72     80     81
3          3    Ayaan     93       87      73     90     71
4          4   Lakshay     94       86      74     80     71
5          5    Anish     95       85      75     90     81
6          6   Kashish     96       84      76     80     91
7          7      Love     97       83      77     90     91
8          8   Akshit     98       82      78     80     81
9          9   Raghav     99       81      79     90     71
10         10   Akash     99       81      79     80     71
11         11   Aman     91       82      78     90     81
12         12   Ritik     92       83      77     80     91
13         13  Rishabh     93       84      76     90     91
14         14   Aarya     94       85      75     80     81
15         15   Harnur     95       86      74     90     71
16         16  Anirudh     96       87      73     80     71
17         17  Pragyna     97       88      72     90     81
18         18   Vigyat     98       89      71     80     91
19         19   Dipesh     98       89      71     90     91
20         20  Himanshu     91       81      79     80     81
> max(q5$Physics)
[1] 99
> max(q5$Chemistry)
Error: object 'q5$Chemistry' not found
> max(q5$Chemistry)
[1] 89
> max(q5$Biology)
[1] 79
> max(q5$Maths)
[1] 90
> max(q5$History)
[1] 91
```

```
> q5$total<-rowSums(q5[3:7])
```

```
> q5
```

i..s.no.		Name	Physics	Chemistry	Biology	Maths	History	total
1	1	Ansh	91	89	71	90	91	432
2	2	Saksham	92	88	72	80	81	413
3	3	Ayaan	93	87	73	90	71	414
4	4	Lakshay	94	86	74	80	71	405
5	5	Anish	95	85	75	90	81	426
6	6	Kashish	96	84	76	80	91	427
7	7	Love	97	83	77	90	91	438
8	8	Akshit	98	82	78	80	81	419
9	9	Raghav	99	81	79	90	71	420
10	10	Aakash	99	81	79	80	71	410
11	11	Aman	91	82	78	90	81	422
12	12	Ritik	92	83	77	80	91	423
13	13	Rishabh	93	84	76	90	91	434
14	14	Aarya	94	85	75	80	81	415
15	15	Harnur	95	86	74	90	71	416
16	16	Anirudh	96	87	73	80	71	407
17	17	Pragyna	97	88	72	90	81	428
18	18	Vigyat	98	89	71	80	91	429
19	19	Dipesh	98	89	71	90	91	439
20	20	Himanshu	91	81	79	80	81	412

```
> q5$avg<-rowSums(q5[3:7])/5
```

```
> q5
```

i..s.no.		Name	Physics	Chemistry	Biology	Maths	History	total	avg
1	1	Ansh	91	89	71	90	91	432	86.4
2	2	Saksham	92	88	72	80	81	413	82.6
3	3	Ayaan	93	87	73	90	71	414	82.8
4	4	Lakshay	94	86	74	80	71	405	81.0
5	5	Anish	95	85	75	90	81	426	85.2
6	6	Kashish	96	84	76	80	91	427	85.4
7	7	Love	97	83	77	90	91	438	87.6
8	8	Akshit	98	82	78	80	81	419	83.8
9	9	Raghav	99	81	79	90	71	420	84.0
10	10	Aakash	99	81	79	80	71	410	82.0
11	11	Aman	91	82	78	90	81	422	84.4
12	12	Ritik	92	83	77	80	91	423	84.6
13	13	Rishabh	93	84	76	90	91	434	86.8
14	14	Aarya	94	85	75	80	81	415	83.0
15	15	Harnur	95	86	74	90	71	416	83.2
16	16	Anirudh	96	87	73	80	71	407	81.4
17	17	Pragyna	97	88	72	90	81	428	85.6
18	18	Vigyat	98	89	71	80	91	429	85.8
19	19	Dipesh	98	89	71	90	91	439	87.8
20	20	Himanshu	91	81	79	80	81	412	82.4

```
> q5$rank<-rank(q5$avg)
```

```
> q5
```

i..	s.no.	Name	Physics	Chemistry	Biology	Maths	History	total	avg
1	1	Ansh	91	89	71	90	91	432	86.4
2	2	Saksham	92	88	72	80	81	413	82.6
3	3	Ayaan	93	87	73	90	71	414	82.8
4	4	Lakshay	94	86	74	80	71	405	81.0
5	5	Anish	95	85	75	90	81	426	85.2
6	6	Kashish	96	84	76	80	91	427	85.4
7	7	Love	97	83	77	90	91	438	87.6
8	8	Akshit	98	82	78	80	81	419	83.8
9	9	Raghav	99	81	79	90	71	420	84.0
10	10	Aakash	99	81	79	80	71	410	82.0
11	11	Aman	91	82	78	90	81	422	84.4
12	12	Ritik	92	83	77	80	91	423	84.6
13	13	Rishabh	93	84	76	90	91	434	86.8
14	14	Aarya	94	85	75	80	81	415	83.0
15	15	Harnur	95	86	74	90	71	416	83.2
16	16	Anirudh	96	87	73	80	71	407	81.4
17	17	Pragyna	97	88	72	90	81	428	85.6
18	18	Vigyat	98	89	71	80	91	429	85.8
19	19	Dipesh	98	89	71	90	91	439	87.8
20	20	Himanshu	91	81	79	80	81	412	82.4

```
rank
```

1	17
2	5
3	6
4	1
5	13
6	14
7	19
8	9
9	10
10	3
11	11
12	12
13	18
14	7
15	8

```

> q5<-q5[order(q5$rank),]
> q5
   i..s.no.      Name Physics Chemistry Biology Maths History total avg
4        4    Lakshay     94       86      74     80     71    405 81.0
16       16  Anirudh     96       87      73     80     71    407 81.4
10       10    Akash     99       81      79     80     71    410 82.0
20       20  Himanshu    91       81      79     80     81    412 82.4
2        2    Saksham     92       88      72     80     81    413 82.6
3        3    Ayaan      93       87      73     90     71    414 82.8
14      14    Aarya      94       85      75     80     81    415 83.0
15      15   Harnur      95       86      74     90     71    416 83.2
8         8   Akshit      98       82      78     80     81    419 83.8
9         9   Raghav      99       81      79     90     71    420 84.0
11      11    Aman      91       82      78     90     81    422 84.4
12      12   Ritik       92       83      77     80     91    423 84.6
5         5   Anish      95       85      75     90     81    426 85.2
6         6  Kashish      96       84      76     80     91    427 85.4
17      17  Pragyna      97       88      72     90     81    428 85.6
18      18   Vigyat      98       89      71     80     91    429 85.8
1         1   Ansh       91       89      71     90     91    432 86.4
13      13  Rishabh      93       84      76     90     91    434 86.8
7         7    Love       97       83      77     90     91    438 87.6
19      19  Dipesh      98       89      71     90     91    439 87.8

  rank
4     1
16    2
10    3
20    4
2     5
3     6
14    7
15    8
8     9
9    10
11   11
12   12
5    13
6    14
17   15

```

```

|> write.csv(q5,"final_q5.csv")
|>
|
```

	A	B	C	D	E	F	G	H	I	J	K
1	I.S.no.	Name		Physics	Chemistry	Biology	Maths	History	total	avg	rank
2	4	4	Lakshay	94	86	74	80	71	405	81	1
3	16	16	Anirudh	96	87	73	80	71	407	81.4	2
4	10	10	Akash	99	81	79	80	71	410	82	3
5	20	20	Himanshu	91	81	79	80	81	412	82.4	4
6	2	2	Saksham	92	88	72	80	81	413	82.6	5
7	3	3	Ayaan	93	87	73	90	71	414	82.8	6
8	14	14	Aarya	94	85	75	80	81	415	83	7
9	15	15	Harnur	95	86	74	90	71	416	83.2	8
10	8	8	Akshit	98	82	78	80	81	419	83.8	9
11	9	9	Raghav	99	81	79	90	71	420	84	10
12	11	11	Aman	91	82	78	90	81	422	84.4	11
13	12	12	Ritik	92	83	77	80	91	423	84.6	12
14	5	5	Anish	95	85	75	90	81	426	85.2	13
15	6	6	Kashish	96	84	76	80	91	427	85.4	14
16	17	17	Pragyna	97	88	72	90	81	428	85.6	15
17	18	18	Vigyat	98	89	71	80	91	429	85.8	16
18	1	1	Ansh	91	89	71	90	91	432	86.4	17
19	13	13	Rishabh	93	84	76	90	91	434	86.8	18
20	7	7	Love	97	83	77	90	91	438	87.6	19
21	19	19	Dipesh	98	89	71	90	91	439	87.8	20