Lab-3.1

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Program-20

Aim :-> WAP to create two list and merge them and display perticuler element.

- Code :->

```
l1 = list()
t = as.integer(readline("Enter total element of list 1:"))
v = c(1:t)
print("For list 1:")
for (i in v)
{
        cat("Enter ", i, "th Element:")
        list1[i] = readline()
}
list2 = list()
t = as.integer(readline())
v = c(1:t)
print("For list 2")
for (i in v)
{
        cat("Enter ", i, "th Element:")
        list2[i] = readline()
}
mergelt = c(list1, list2)
print("merged list is:")
print(mergelt)
```

- Output :->

```
Enter total element of list 1: 3
Enter 1st element: 1
Enter 2nel element: 2
Enter 3rd element: 3
```

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Enter total elements of list 2: 2
for list 2
Enter 1st element: mon
Enter 2nd element: tue

merged list is:

[[1]] 1

[[2]] 2

[[3]] 3

[[4]] mon

[[5]] tue.

Lab-3.2

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Program-21

Aim:→ WAP to demonstrate the use of data frame and show the expansion of dat frame.

- Code :→.

```
myresult <-data.frame(
    code(206 :210),
    Subject = c C"CO", "DFS", CN", "CG", "APL"),
    credits = c (6,6,6,6,3),
    grade = c("BC", "AA", "BB", "BC", "BC")
)
print(myresult)
myresult $outof10 <- c (7,8,8,7,7)
print C"After adding column:")
print (myresult)
print C"After adding row:")
newdata <-data.frame(.
    code = c (302),
    subject = c("ECO"),
    credits = c (3),
    grade = c("BC"),
    out of 10 = c(7)
)
myresut = rbind (myresult, newdata)
print (myresult)
print ("sub and grades")
result = data.frame (myresut $ subject, myresut $ grade)
result2 = myresult [1:2,]
print (result)
print C"only two rows")
print (result 2)
```

- Output :->

cocle	subject	credits	Giracle
206	CO	6	BC
207	DFS	6	AA
208	CN	6	BB
209	CG	6	BC
210	APL	3	BC

After adding column:

cocle	subject	credit	Giracle	Outof 10
206	CO	6	BC	7
207	DFS	6	AA	10
208	CN	6	BB	8
209	CG	6	BC	7
210	APL	3	BC	7

After adding row:

cocle	subject	credit	Giracle	Outof 10
206	CO	6	BC	7
207	DFS	6	AA	10
208	CN	6	BB	8
209	CG	6	BC	7
210	APL	3	BC	7
302	ECO	3	BC	7

sub and gracles

Subject	Gracle.
CO	BC
DFS	AA
CN	BB
CG	BC
APL	BC
ECO	BC

two rows

cocle	subject	credit	gracle	outof 10
206	CO	6	BC	7
207	DFS	6	AA	10.

Lab - 4.1

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Program: 22

Aim:- WAP to read and display csv file and number of rows and columns in the input file.

- Code :->

```
data = read.csv("file1.csv")
print(data)
print(ncol(data))
print(nrow(data))
print(is.data.frame(data))
```

- Output :->

ID	Name	Marks	Date
01	Chintan	100	25-3-18
02	Mansan	100	25-3-18
03	Mit	100	25-3-18
04	Rajesh	100	25-3-18

```
4

4

TRUE
```

Lab-4.2

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Program-23

Aim :-> WAP to demonstrate the writing to csv file and display the updated file

- Code :->

```
data = read.csv("file1.csv")
subdata = subset(data, as.Date(date) ==
                                as.Date("25-3-18"));
write.csv(subdata, "new.csv", row.number = FALSE)
```

- Output :->

ID	Name	Date
01	Mit	25-3-18
02	Sagar	25-3-18
03	Krupal	25-3-18
04	Hitesh	25-3-18

Lab-5.1

Program-24

Aim:→ WAP to reeed and display excel file.

- Code:→

```
deata = reeed.xlsx("demo.xlsx",sheet Index = 2)
print(deata)
```

- Output:→

ID	city
1	Delhi
2	Mumbai
3	KolKatta
4	Ahmeelabael
5	Surat

Lab-5.2

Program-25

Aim:-> WAP to read XML file and convert it to data frame and display it.

- Code :->

```
result ← xmlparse (file = "input.xml")
print (result)
xmldataframe ← xml to dataframe ("input.xml")
print (xmldataframe)
```

- Output :->

```
1
    Chintan
    100
2
    Rajesh
    100
3
    Mit
    100
```

sr.no	Name	Marks
1	Chintan	100
2	Rajesh	100
3	Mit	100

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Program-26

Aim:→ WAP to database connection and insert value in the table and display it.

- Code :→

```
mysqlconnection = dbConnect (mySQL, user="root",
password = " ", host = "localhost")
dbsendQuery (mySQL Connection,
"insert into student (id, department)
    values (1, 'CP')")
result = dbsendQuery (mySQLconnection,
    "select * from student");
data.frame= fetch (result, n=1)
print (data.frame)
```

- Output :→

```
1    CP
2    Civil
```