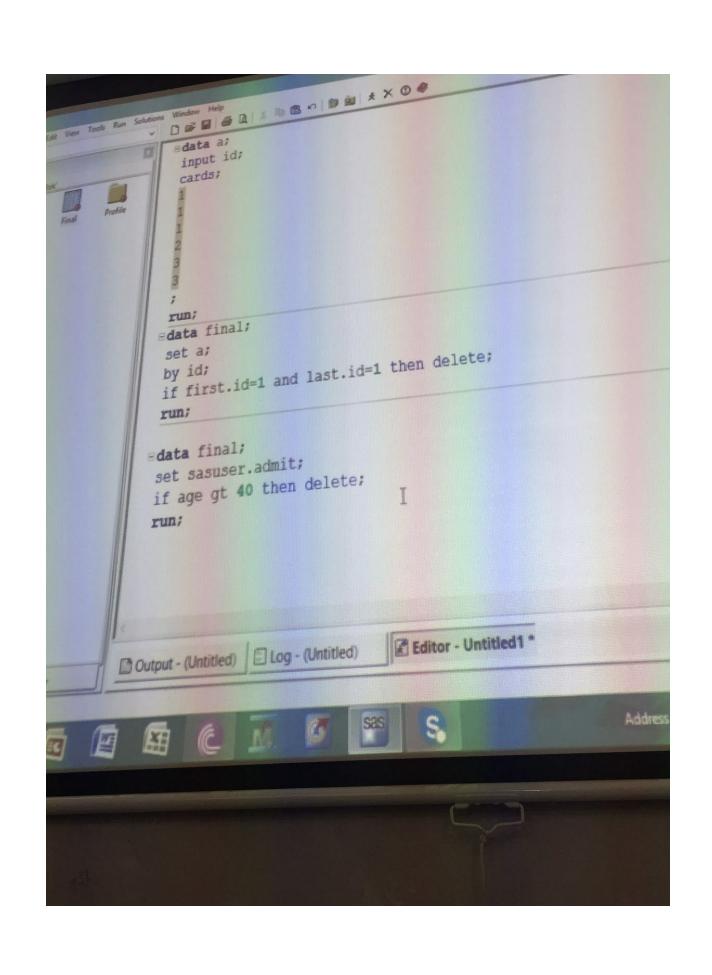
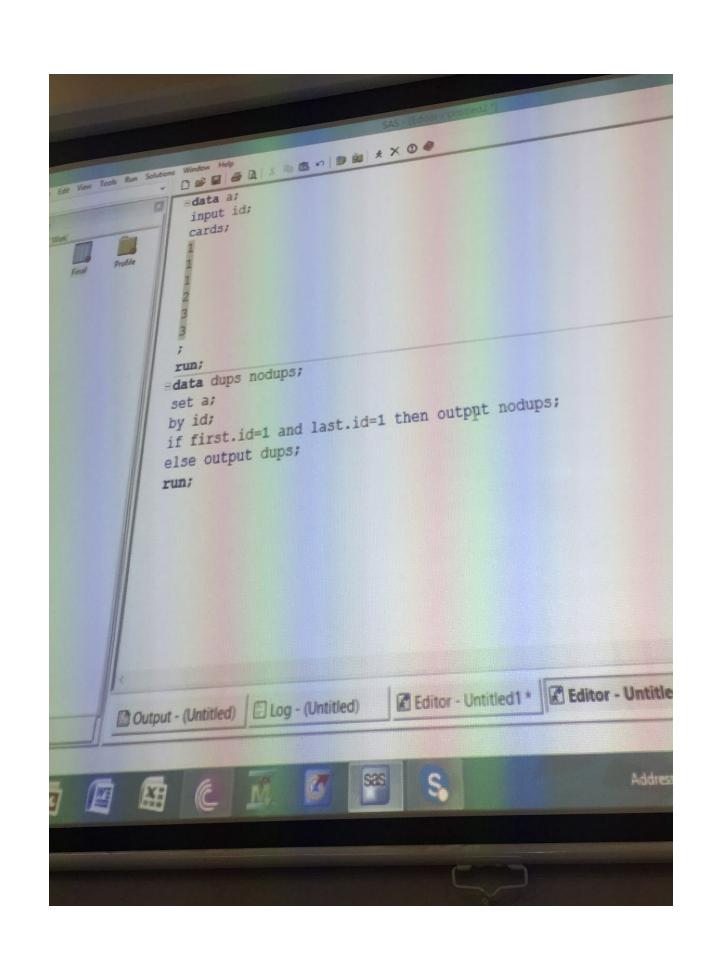
CLASS 9 NOTES





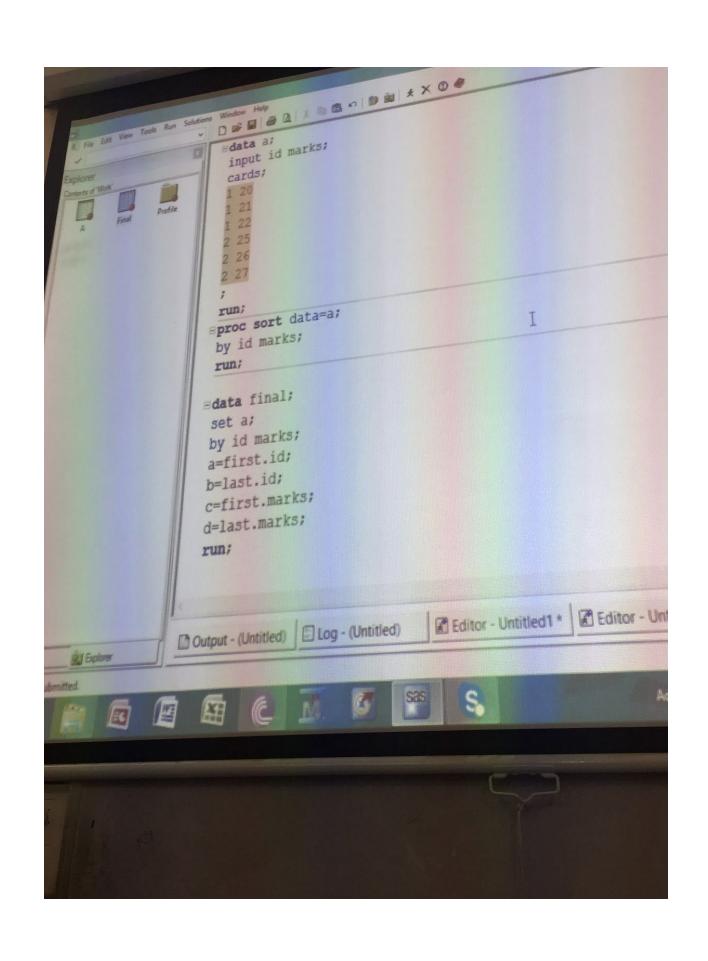
Program: data a; input id marks; first mails last mails first id last id caredo; 22 2 25 2 27 30 sun; Suppose if we want the duplicates values to be deleted and duplicate values to be printed or vice - versa . then, data final; If we want duplicates. set a; by id; if first id = 1 and last id = 1 then delete;

```
Another example
data a;
input id;
cardo;
data dups nodups;
set a;

by id;

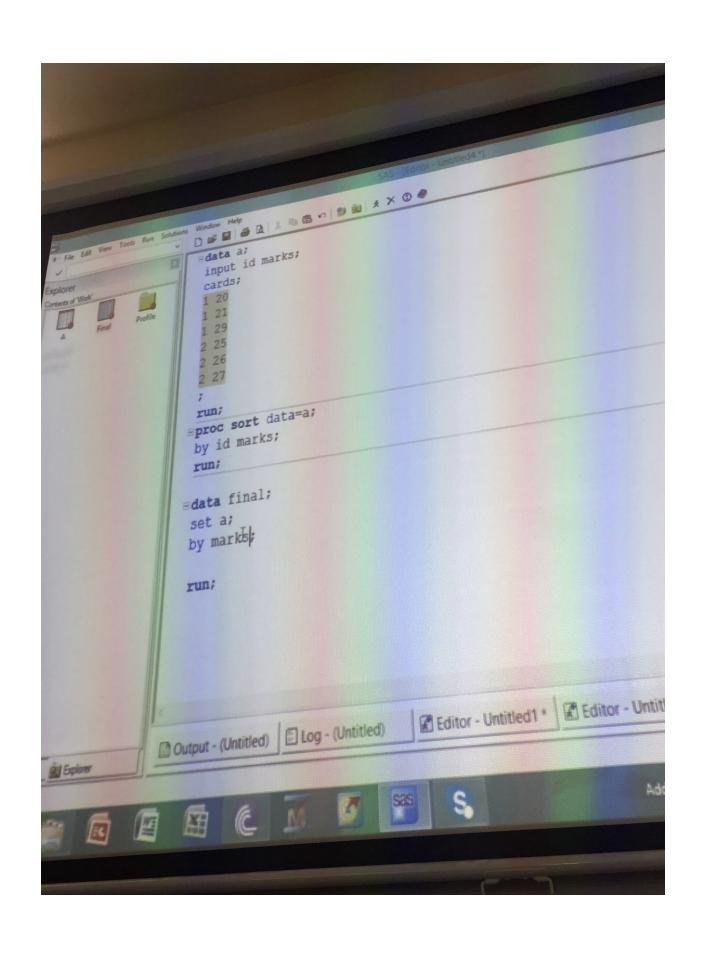
if first.id=1 and last.id=1 then output

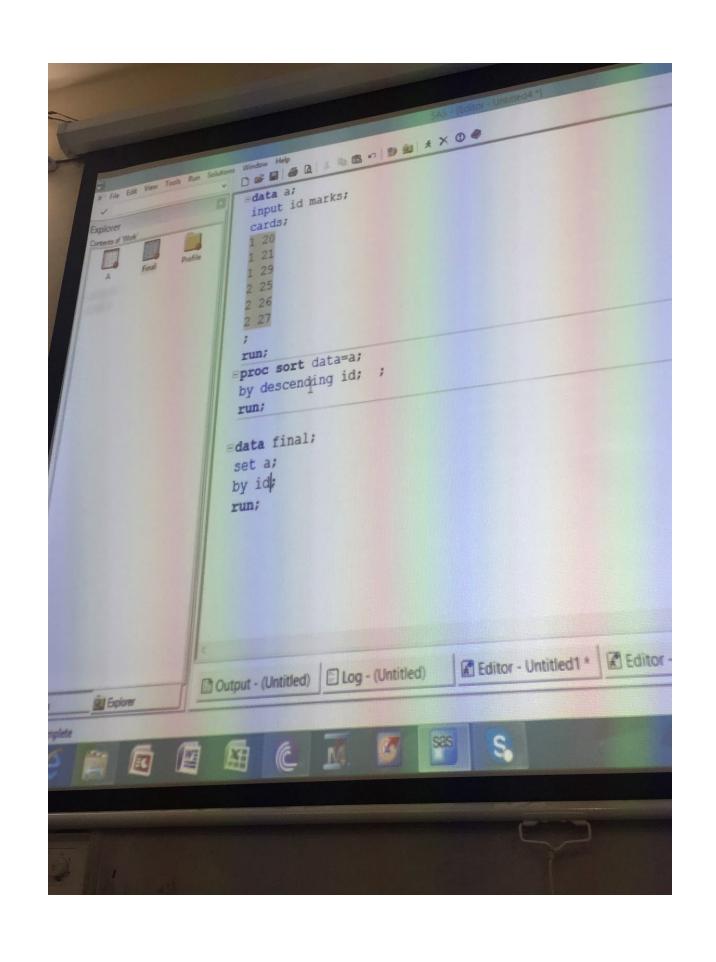
nodups.
else output dups;
lun',
```



data a', first id last id input id marks; 21 22 25 2 27 proc sort data = a; by id marks; data final; set a; by id marks; a= first.id; > whatever variable we b= last. id; put in by, their first dot c = first. marks; and last det are made. d = last. marks; How we have two groupsprimary (id) and suandary (marks) 'Id' will werk according to

the primary group and marks being the secondary group will work according to id. Program data a', input id marks; cards; 1 29 proc sort data = a; -> This will been. by id marks; data final; - This will show ever because the dataset is not sorted by by marks; marks, it is sorted by id. eun',





Program data a; input id marks; cardo; 1 21 Here id is serted in descending order. 2 27 un', for soit data=a; by descending id; lun', This has to match data final; set a; by id; Here in ascending order, so, sun', will show ever.

Merging in SM /VLOOKUP/ 50ins id has sal why ? (to consolidate data), to make it information Pre requisite: 1: Common Primary Key. (id) Rich. 2. Sorted by the Primey ky A/D 3: The type of Arihan key to be same

MERGING in SAS / Vlookup (Excel) / Join (Sql) What is merging: Merging is combining two or more data sets "headon" to make a child data set that has attributes (variables) from all the farient data set.

id name sal 1 A 100 2 B 200

* In general, Appending increase lows and merging increases columns.

there, c is the merged product of A and B or c is the child of A and B. Why do we merge?

In order to consolidate data or to make it information sich, we do merging.

What are the pre-requisite (requirements) of merging:

- 1. Common key (3g: id')
- 2. Derted by the primary key (either ascending er descending).
- 3. The type of primary key should be same, (either character er numeric) g-if it numoù c on one side then it should be numeric on other side also.

How to do merging: data a', input id name \$;

sun;

data b; input id sal; cards;

1 100 200

Merge

data c;

child of 'a' and 'b'.

merge a b;

merge statement

by id;

sorted by 'id'

men;

Output

1	id	name	sal	
	1	A	100	
	2	B	200	

Types of merging

1. 1 to 1 merging

Sg: id name id sal (1 A (1 100 (2 B (2 200

two bygraups

id name sal

1 A 100

2 B 200

Here, by groups are two and each by group has single now in it. So, this type of merging is called 1-1 merging. Note: In 1-1 merging, no. of nows in the bygroup should be one. Another eg: id sal 200 id name sal 100 B 200 c . -> numeric field sal 100 100 200 B 200 300 300 character field

(2) 1- many merging

Data C;
merge a b;
by id;
lun;

A			B	_
id	name		id	sub
1	A	<u></u>	1	H
2	В	one to many	1	m
3	C	V	2	E
			3	M
			3	S

Output

id name sub

1 A H

3 bygraups

1 A M

1 2 B E

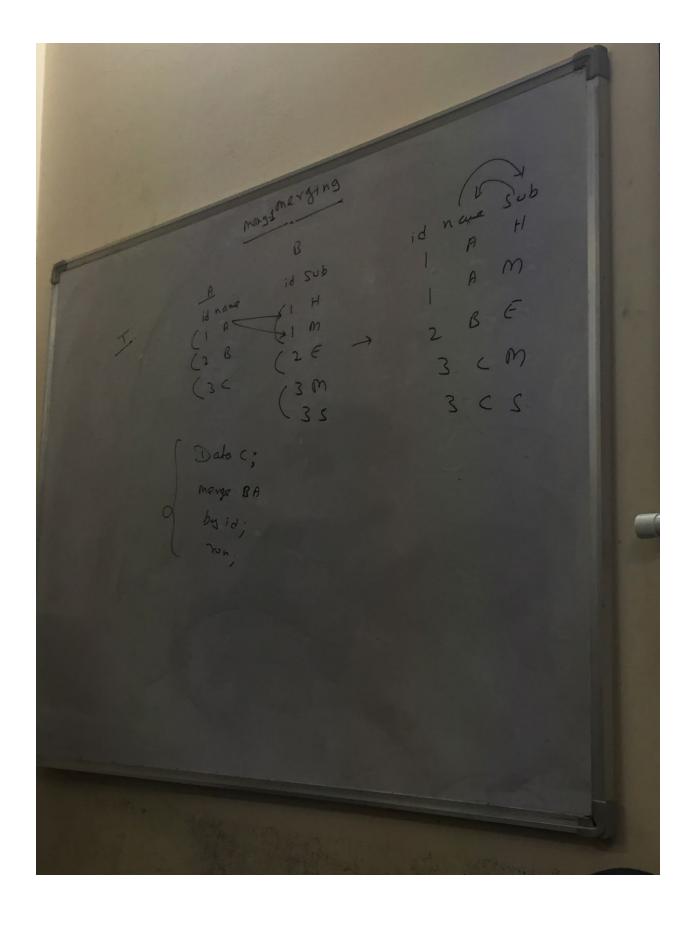
1 3 C S

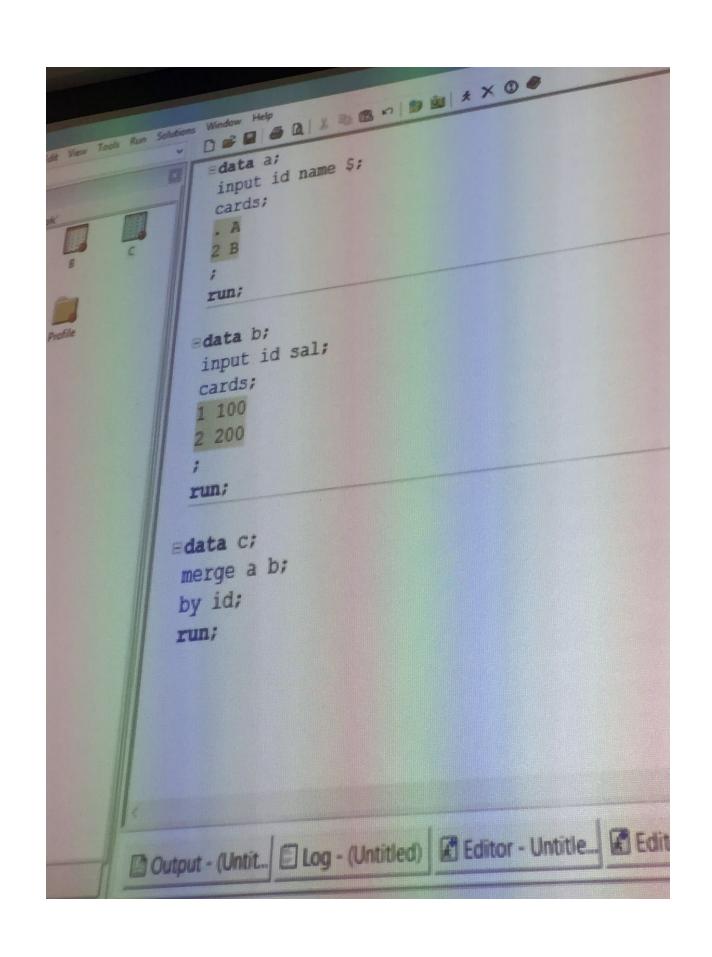
No. of bygroups are three, but in neach bygroup no., of rows are one one one, so one to many merging.

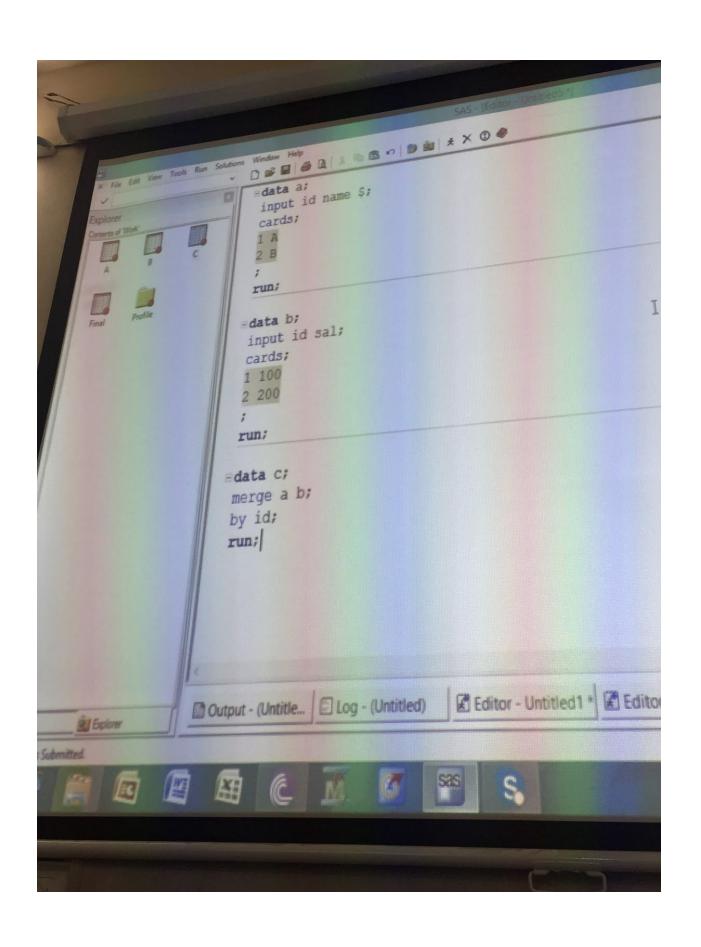
(3) Mary to 1 merging Data c;
merge b a;
by id;
un; B id sub id H B B M E 3 C 2 M 3 S 3 Sub id A H A M B 2 M C 3 S C

nac 100 A 200 B A B id name id Sap (1 A (1 100) (2 B (2 200) (7 30) (64) id hame seep 1 A (7 300 (5 500 (1 100 100 2 B Jan 300

M BE (3m)CS Data (; Merge AB;







Interview Question (CASE STUDY - 1) Merge behaves like append when you don't have common values. data b', data a', input id sal; input id name\$;
cardo; cards; 22 200 un'; data c; merge a b; by id; Output id sal name 100 22

data a; input id name \$ age;

1 A 12

2 B 15

1

un'

data b;
input id sal age;
cards;
1 100 45

2 200 55

sur,

data c';
muge a b;
by id;
eun;

Here, we have four variables - id, name, age, sal.
But, the issue is whether

the age from data set 'a'
vill come or dataset 'b'.

Acc, to concept of merging overlapping is done.

there, the age from dataset à l'b' will overwrite dataset à age's value.

But here also the condition is that dataset 'b' should have the updated values of age, only then it will over-wite the age value of 'a'.

Output

[id	nane	Sal	age
2	AB	100	45

Suppose, from the previous example, if dataset'a' have the updated value of age and we don't want dataset 'b' age's value to averwrite 'a'.

In that case, drop the variable of age' from dataset 'b', so that it should not overwrite.

data c;

merge a b (drop = age);
by id;

will not be overlapped.

Output

[id	name	sal	age	
1	A	100	12	- 'age' from
2	18	200	15	dataset 'a'.

```
Program
```

data cte;
infaut empid sal;
cards;

1 100
2 200
3 900
;
run;

data new;
input empid sal;
cardo;
1 100
1 110

Here, we want to update

the data of ctc' by 'new'

by emp id (which is sorted)

means with every empid,

the updated salary

should come.

15 updated salary = 135 25 " " = 395 30 " " = 950

Program -> data ctc;

update ctc new;

by empid;

eun;

Output

	empid		Sal
1		1	135
2		2	395
3		3	950