UNIT-2 Table AND LIST

Byllasus; -

2. Table and list

- -) creating lists:
 -) ordered list,

 - -) un ordered list.
 - -) Nented list
 - -) Debenition lest.

 - -) Creating tables and -) Inverting protures.

Table and lest

Screating lists:

Definition of lists:

list are basic elements in a document, when used connectly they keep concepts organized and structured.

Ex:-

I begin & document} open later of ments

I begin & list } {fruits;} }

litem apple
litem banana
litem pineapple
litem custuand apple
litem grapes
litem mango
litem guava
lend & Lest }

lend & list} lend { document}

output

fruit: banana
fruit: banana
fruit: pineapple
fruit: custured apple
fruit: grapes
fruit: mango
fruit: guava.

=) ordered list:-

a déflerent environment:

-) The ordered lists are generated by a lenumerate envisorment and each entry must be preceded by the control Sequence letem, which will automatically generate the number labelling theirem.

The enumerate labels consists of Sequential numbers, these numbers starts at 1 with every call to the enumerate envisorment.

I document class [option] { Anticle}

I begin { document}

I begin { enumerate}

I tem apple

I tem banana

I tem princapple

I tem grapes

I tem grapes

I tem guava

I end { enumerate}

I end { document}

output

1. apple
2. banana
3. pineapple
4. custuad apple.
5. grapes
6. mango
7. guava.

The unordered (unnumbered) list are produced by the itemsize environment.

Each entry must be preceded by the control Sequence litem.

-) By Default the individual entries are indicated with a black dot, so- Called bullet.

-) The text on the entries may be of any length.

Exi- 1 document class [] { article} 1 begen { document} l begen { stemize} > open later Lest enswirorment

litem apple

litem banana

litem pineapple

litem Custuad apple.

litem grapes

litem mango

litem guava.

1 end 3 ; temize }

lend Edoument

output

- · apple
- prineapple
- · custured apple
- · grapes
- · mango
- · guava.

1 stemize.

```
=) ordered lest another number types apply: - (3) -0
-)Ex! - Idocument class [option] [ Asticle]
     I begin [document]
      I renew command &1 (abelenmii } &1 Roman Jenumii)}
      I begin Senumerate)
      litem apple
      1 item banana
       litem prneapple
                                    output
     lbegen genumeratez
                                1. apple
                                2. banang
       litem car
                                 3. pineapple
        litem bike
                                        I car
        /item reep
                                        II bike
     | begen {enumerate}
                                        III Leeb
        litem 5 star
                                           i. 5 star
                                           11. munch
        19tem munch
     (begen genumerate)
                                           A. deriver
                                            B. pilot
         Item driver
                                          III. darry milk
         litem pilot
                                          iv. eclairs
      lend genumerate?
                                        IV. biyde
         Istem danver
                                         V Sumo
         19tem polot
                                         VI bus
      lend Senumerate}
                                         VII terain
         litem dainy milk.
                                 4. custured apple
         litem edairs
                                 5. grapes.
      lend & enumerate ?
                                 6. mango
        1 item bicycle
                                 7. guara
        I stem sumo
```

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=) List Styles: - ordered & un ordered: - (4) or As many other latex elements, unordered and ordered list styles can be personalized.

-) ordered lists styles: -

the numbering styles change depending on the depth of the nexted lists.

Ex!- (1)

I begin {enumerate} litem First level litem First level begin senumerates litem Second level litem Second level / begin [enumerate] litem third level litem third level l begen fenumerate) litem fourth level 1ºtem fourth level I end Senumerate ? lend fenumerate? lend Senumerate} lend Senumerate &

1. First level stem
2. Front level
(a) Second level
(b) Second level
i. Third level
A. Fourth level
B. Fourth level

The default numbering Scheme is:

- · Arabic number (1,2,3...) for level,
- · lower Case letter (a,b,c,...) for level 2
- · Lower Case Roman numerical (i, ii, iii ...) for level 3
- · upper Case letter (A,B,c,..) to levely.
- -) There numbers can be changed by redefining the Commands that type Set The numbers of various lest levels. For example.
- Ez: | renew Command & | label enumii} & | Roman & enumii} |
 | begen & enumerate} |
 | litem first level |
 | begen & enumerate} |
 | litem Second level |
 | litem & second level |

begin {enumerate}

litem third level

litem third level

libegen {enumerate}

litem fourth level

litem fourth level

lend {enumerate}

lend {enumerate}

lend {enumerate}

lend {enumerate}

out put

1. First level
2. First level
1. Second level
11. Second level
i. Third level
ii. Third level
A. Fourth level
B. Fourth level

-) The Command I renew Command & Ilable enumii)

\$ \ \text{Poman & enumii} \} \ \text{Changes the Second level to upper (and poman numeral. It is passible to change the labels of any level, replace label enumii for one of the list below.

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- · I thee numi for level 1
- · | thee numii for level 2
- · I thee numiii for level 3
- · I the numer for levely

The Command must be placed in the preamble to change the labels globally it right before begin lenuments) to change labels only in this list. There are some other styles, see the reference guide for a Completelist. In numbered list the Counter is incremented by litem before it is printed, and starts from 1,9,1,4,1 This Can be changed.

Ez:- I re new command & I label enumii } & I Roman & enumii)}

Ibegen & enumerate}

I item pirst level

I item pirst level

I begen & enumerate}

litem second level

lbegin { enumerate}

1 litem third level

lbegen 2 enumerate?

leten tourth level

lend cenumerate?

lend cenumerate?

lend cenumerate?

lend cenumerate?

1. First level item
2. First level item
V. Second level
VI. Second level
1. Third level
ii. Third level
A. Fourth level
B. Fourth level

To change the start number or letter you must use the 1 set Counter Command. In the example, to to change the Start number of level 2 to v the Command 1 set Counter & enuming & [4] was used —) To set the start number to any other counter change enuming for any of these:

- · enumi to level 1
- · enumii ta level2
- · enumiii ta levels
- · enumir to level 4

-) un ordered lest styles: 6 -0 The lable scheme of un ordered lists also changes depending on the depth of the nexted list. Ex: | begin & stemize} litem First level I begen & itemize } litem second level l begin ¿ itemize} litem third level lbegen Litemizes litem fourth level lend { itemize} lend ["temize? lend fitemizes lend Sitemize ?. output · First level - Second level * thind level · pourth level -) The default label scheme for stemized lists! · level 1 98 | text bullet (.), · level 2 is / textendash (-), · level 3 Ps I text asterisk Centered (*) - level 4 Ps I text period centered (.).

These labels can be changed by nedebining the Commands that type Set them for various list levely. For example, to change level 1 to black Square and level 2 to white Square we'll use.

Ex! - I renew Command [I label itemi] [\$ 1 black square \$} I nenew Command [1 label itemii] [4 | square \$] I begin { item size} litem first level lbegen [stem size] litem ferond level lbegin { êtem sîze} litem third level I begen fitem size} litem throad fourth level lend Litemize? lend [itemize] lend Efterize? lend { itemize }

print level

Second level

Third level

Fourth level

- -) The mathematical symbols used in the previous example belong to the ams symb package, so you have to all live have to add use package gamssymb? to your preamble.
- -> To nedebine the label use one of the next commands, depending on the level of list mark you intend to change:
 - · labelitemi for level 1
 - · labelitemii for level 2
 - · label etemiii for level 3
 - · label stems of levely
- -) you can also change the item label to a specific only, for example:

Est / pedeu : Estemise}

litem befault item one litem Default item two

litem [\$ | Square \$] custom item lable three lend & item size }

output

- · Default Item one
- Default Item two
- custom stem lable three.

=) Nested liste -

In latex you can invert a list inside anotherlist.

The above lexts may be included within one another,

either mixed or of onetype; to a depth of four levels.

Ex: - | document [] {antide}

I begin & document}

(begin Senumerate)

litem apple

litem banana

litem pineapple

litem custurdapple

(begin Jenumerate)

1 item apple

litem [!] barana

litem [1] pineapple

(begen genumerate)

litem apple

litem banana

(pedeu ¿ eumanage)

litem seed less fruits

lend genumerates

litem pineapple

litem custand apple.

lend & enumerate }

litem custured apple

I stem grages

litem mango

litem guava.

owput

1. apple

2. barana

3. pineapple

4. Custured apple

(9) apple

1 banang

1 pineapple

i. apple

li. banana

A. Seed lessout

111 · pineapple

iv. Centurdapple

(b) custured apple

(c) grapes

(d) mango

(e) quava

5. grapes

6. mango

7. guara

lend genumerate]

litem grapes

Vitem margo

1stem quara

l begån { itemsize}

litem apple

litem barana

litem pineapple

I Item custuad apple

litem grapes

litem mango

11 tem quava

| end Sitemize }

litem apple

Item banana

1 stem pineapple

litem custuad apple

1 êtem mango

litem quara

lend Senumerate }

lend {document}

· apple

· banana

· pineapple

· custured apple

· grapes

· margo

· guara

8. apple

9. banana

10. pineapple

11. custurdappe

·12 · grapes

13. mango

14. guara.

3

These lest are Created using the description envisionment you use the litem command as before to specify each item but now it Can take an optional argument which says what it is your describing.

Ex:-

| document class [option] Sapitale]
| begin & description] > open later in tormat |
| litem [pdf] partable document format
| litem [LAN] local area network.
| litem [wan] wide area network.
| end [description]
| end {document}

output

paf portable document format lan local area network. Wan wide area network.

Images are essential element in most of the Scientific documents. LATEX provides Several options to handle images and make them look exactly what u need. In their orticle es explained how to include images in the most Common formats, how to shaink, enlarge and notate them, and how to reference them within your downent.

Exi- Idocument class [article] luse package ¿graphicx} / pedeu & gorneur 3

I begin I tigure] sopen wishards

| Proclude graphics[width = 0.7 | Linewidth] {F: /DS. 0183} 1 Caption { }

Mabel { fig: dsc01133} lend & figure}

1 begin { figure}

1 centering Include graphics [width:0.7/ line width] [F:/DSC_0113] (Captions }

| label { tig: dscoll3} lend tigure.

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