* features of Clim # 1) Process history

2) free and open source

3) dupports non-linear development Create backups, D Supports collaboration & Branching in earner 8) distribured development. & Programming Continues. * Wildends :- There are some characteers that are evaluated by the shell on a special circy. They are called sheel metacharoutoss or " celld cards". There characters are veither munifour our letters. For ext the *? and [] are used for Allerane expansion. The <, >, 2>, >>, and I symbol are used for standard I/o reclinection and pipes. To prevent there characters from being finite queted by the shell, they must be quoted! Eig of 21 m # do ??; cat file [1-3] * Displaying veryput :-To point output to the series, the echo command ip used wildleands must be escaped with either a backslash or makking aprive Eig! - echo " Hello World"

* Local Variable & Local variable one in scope, we command day the current shell, when a simple ends they are no longer available; her, they go out of siege total variable can also be defined with the birts de declare furction i havel voulestep are pet and arriged Notices exist variable rame = value declare variable name = Value name = " (Vipul Timori" of Global Variable & Global variables are called environment wenderles and are creamed with the expert -built in command. They are get for the currentry oruning shell and any process spowned from that shell They go out of grape when one grouph ends -> The built in declare function with the -x option also pets an environment variable and narry it for Exto expost VARPABLE_MANE = Value declare - X Variable - NAME = value exposur PATH = (bin : / usr/ bin: from variable variables à a dollar sign is used Ext poho & voniable - name cho & name Rehord PATH

Reading upon the user will be asked to ever Espera input The read command is used to occupy a line of Input. Hultiple arguments to read will com a line to be proven into woods , and and word will be assigned to the rome variable Ext ceto " what In your name" read ranel name 2 Arithmetic operators to The Bank shells support Entreger arithmena. The declare -i declare an sureger type variable. The pain shell typest command can also be use comparibility. Integer another can on variables declared this way. Otherwise the (()) ((ex command) syntax is used for anthretic operations Exto declare - i variable - vame used too back typeset - 1 variable name can be used comparible with Keh ((n25+59) Reho &n Arguments can be passed to a simple The command line, Positional parameters uped to receive this values from within the scripm Entre somprane agt ag2 ag3. ~ In a scorph Roho \$1 \$2 \$3 - Positional parameters All the positional echo \$# - The no. of positional parameters



The shbang line of the "sh bang" time is very time the of the script and tess the remel know what shell will be understrug the lines in the rempt their bang line consists of a #! followed by the fuel pathwane to the shell, and can be followed by aption to control the behaviours of the shell.

Ext #! [bin | bash