Bash script notes:

Ctrl + alt + T for terminal

Cat /etc/shells for all shell available

Which bash :for bash path

Touch ….. for creating file

#! /bin/bash required in every file

Echo “…” to print any string

Chmod +x filename :to enable execute file

Ls –al to see the file status and its permission

./filename to execute file

**Redirect to file**

Echo ‘….’> filename to copy text to another file

Cat > filename : copies whatever we write in terminal : to end it press **ctrl+D**

Cat >> filename: to append inplace of replacing text

**Comment**

**#this a cat command :e.g**

For multiple line comment:

: ‘……….

……….

…………

…….’

Creating variable

Cat << variable name

………..

………

Variable name :to close it(mainly used to show comment)

**Conditional Statement**

**e.g:**

**count =10**

**if [ $count –eq 10 ]**

**then**

**echo “the condition is true”**

**else**

**echo “the consition is false”**

**fi**

**if (( $count === 10 ))**

**then**

**echo “the condition is true”**

**else**

**echo “the consition is false”**

**fi**

**while statement:**

**e.g:**

**number =1**

**while (( number <=10 ))**

**do**

**echo “$number”**

**number = $(( number +1 ))**

**done**

**until statement**

**number = 1**

**until ( $number >= 10 )**

**do**

**echo $number**

**number=$(( number + 1))**

**done**

**For loop**

**for i in {0..20}**

**do**

**echo $i**

**done**

**output:1,2,3……20**

**for i in {0..20..2} :{start..ending..increment}**

**do**

**echo $i**

**done**

**output:2,4,6….20**

**alternate**

**for (( i=0; i<=5;i++))**

**do**

**echo $i**

**done**

**output:1,2,3……20**

**for ((i=0; i<=10;i++))**

**do  
 if(I >=3)**

**then**

**break**

**fi**

**echo $number**

**done**

**output:1,2**

**for ((i=0; i<=10; i++))**

**do**

**if((i == 3)) || ((i == 7))**

**then**

**continue**

**fi**

**echo $number**

**done**

**output:1,2,4,5,6,8,9,10**

**Input:**

**Args=(“$@”) : reprents unlimited user input**

**Echo ${Args[0]} :printing array**

**Echo $# :prints legth of array**

**While read line**

**Do**

**Echo “$line”**

**Done < ” ${1:-/dev/stdin}” notes: $1 is argument for stdin whereas stdin is a terminal if empty path in terminal( terminal input is $1 and $line)**

**Stdin=Standardinput**

**Stdout=Standaroutput**

**Another case**

**./filename any txt patrh**

**Output: text present in the txt file**

**Ls –al >file.txt for putput**

**Ls +al >file.txt for error**

**Combo**

**Ls –al 1>file.txt 2>file2.txt(if –al it wiil be stored on file 1 else +al then on file2)**

**If both in one file then**

**Ls –al >&file1.txt**