15/11/22 LAB-2

1) Write a shell script to find the area of a circle.
2) Write a shell script which counts the number of lines and numbers of words present in a given file
3) Write a shell script which displays the list of files in the directory
4) Identify the following command to be initiated in shell for the following problems and write these commands
   i) Copy the entire directory by name BMS located in /usr/temp to the current directory
   ii) Rename all the files interactively starting from chap01, chap02 and chap03
   iii) Remove the files in the directory /home/kumar/prgm from the home directory.
   iv) Display the common things b/w 2 files
   v) Display an octal dump for the content of file named file1

nano area.sh

1) #!/bin/sh
```
echo "Enter the radius of the circle:\c"
read radius
area = $(echo "3.14 * $radius * $radius" | bc)
echo "The Area of circle is : $area"
```

Output : sh area.sh
```
Enter the radius of the circle : 2
The Area of circle is : 12.56
```

[wc area.sh -l
wc area.sh -w

Output : X
```
5 area.sh
19 area.sh]
```

nano count.sh

2) #!/bin/sh
```
echo "Enter the file name :\c"
read fname
echo "The number of lines in the given file $fname is:\c"
wc $fname -l
echo "The number of words in the given file $fname is:\c"
wc $fname -w
```

Output: sh count.sh

Enter the file name: area.sh

The number of lines in the given file area.sh is : 5 area.sh

The number of words in the given file area.sh is : 19 area.sh

3) nano list.sh

```
#!/bin/bash
echo "Enter directory"
read dir
cd ../$dir
ls
```

3 directories and 5 files in each

Output: sh list.sh

Enter directory name:

dir1

f1 f2 f3

4) i) nano copy.sh

```
cp usr/temp/bms /home/Keerthana
```

Create home/dir2/dir22/BMS

4) ii) nano move.sh

```
#!/bin/bash
echo "Enter File1"
read file1
echo "Enter File2"
read file2
echo "Enter File3"
read file3
mv $file1 chap01
mv $file2 chap02
mv $file3 chap03
```

Output:

Enter File1

f1

Enter File2

f2

Enter File3
f3

chap01 chap02 chap03

nano rename.sh

4) iii) rm -r kumar/prgm

4) iv) comm file1.sh file2.sh

4) v) od file1.sh

4) iv) Output:

Hi This is Keerthana
Hi This is Nisa

4) v) 0000000 064510 052040 064550 020163 071551 045440
062545 072162
0000020 060550 060556 000012
0000025

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