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Week-2

Q. Write a shell script to find the area of the circle.

Q. Write a shell script which counts the no of line and no of words in given line.

Write the shell script which display the list of files in a directory.

Identify the following command to be initiated in shell for the following problem and write the commands.

i Copy the entire directory by name BMS located in /usr/ temp to the current directory.

ii Rename all the file interactively starting from as chap 01, chap 02, chap 03

iii Remove the files in the directory /home /kumar/ Prgm from the home directory.

(iv) Display the common thing between two file.

(v) Display the octal dump for the file file

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Q → #1 /bin/bash
echo "Enter the radius of circle"
read r
area= $(echo "3.14*r*r" |bc)
echo "The area is
echo $area

o/p: Enter radius of circle
5

The area is
78.50

Q → #1 /bin/bash
echo "Enter file name"
read f
wordcou= $(wc -w $f)
echo "Word count is $wordcou"
linecou= $(wc -l $f)
echo "line count is $linecou"

o/p
Enter the file name
file.sh
word count is 4 file.sh
Line count is 1 file1.sh

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→ #!/bin/sh
Echo "Enter file name"
Read f
wordcou = $(wc -w $f)

Q → #!/bin/bash
echo "~~Ech~~ Enter directory"
read dir
cd .. /$dir
ls

dir 1
d1 d2 d3 d4 d5
dir 2
d6 d7 d8 d9 d10
dir 3
d11 d12 d13 d14 d15

O/P
Enter directory
dir 1
d1 d2 d3 d4 d5

enter directory
dir 3
d11 d12 d13 d14 d15

Q1. cp ~/dir1/dir11/bms ~/lbm20cs057

Q2 #!/bin/bash
echo "Enter file1"
read file1
echo "enter file 2"
read file 2
echo "Enter file 3"
read file 3
mv $file1 chap01
mv $file 2 Chap02
mv $file 3 Chap03

output :- enteq file1
circle.sh
etteq file2
dirls.sh
enteq file3
| count.sh
>LS
Chap01 Chap02 chap03 Himanshu

iii) rm - rf /kumar | prgm

iv) Comm file1.sh file2.sh

output
hello how are you
hello Himanshu
I am Himanshu from bmsce
Comm: file 1 is not in sorted ordeq

Comm: Input is not in sorted ordeq.

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Q5. od file1.sh

output :- 0000000 021412 027441
064542 027556 060542
0644163 062412.

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1g. Shell Script to find given year is leap or not.

```
#!/bin/bash
echo "Enter the year"
read year
if [ $(( year % 400 )) -eq 0 ]
then
echo " it is a leap year"
elif [ $(( year % 100 )) -eq 0 ]
then
echo " not a leap year"
elif [ $(( year % 4 )) -eq 0 ]
then
echo " year is a leap year"
else
echo " year is not a leap year"
fi.
```

```
Enter the year
0000
leap Year
```

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2. Shell script to find the largest of 3 Numbers.

```
#!/bin/bash
echo "Enter 3 numbers"
read n1
read n2
read n3
if [ $n1 -gt $n2 ] && [ $n1 -gt $n3 ]
then
echo "$n1 is largest number"
elif [ $n2 -gt $n1 ] && [ $n2 -gt $n
then
echo "$n2 is largest number"
elif [ $n3 -gt $n1 ] && [ $n3 -gt
echo "$n3 is largest number"
fi
```

output :-

```
Enter the numbers
5
8
10
10 is biggest number
```

3 Q. Shell script to find is a number is +ve, -ve or zero

```
#!/bin/bash
echo "Enter a number"
read n
if [ $n -eq 0 ]
then
echo "Number is zero"
elif [ $n -lt 0 ]
then
echo "Number is negative"
elif [ $n -gt 0 ]
then
echo "Number is positive"
fi
```

output :- Enter a number
5
Number is positive.

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4. Check if given argument are same or not

```
#!/bin/bash
if [ "$1" = "$2" ]
then
echo "Same arguments"
else
echo "Different arguments"
Fi
```

Output :- sh Same argu.sh
Comp Comp
Same argument.

5. Given the Grade accepting marks of student

```
#!/bin/bash
echo "Enter the marks"
read marks
if [ $ marks -ge 90 ]
then
echo "grade : S"
elif [ $ marks -ge 80 ]&&[ $ mark -
then
echo "grade : A"
elif [ $ marks -ge 70 ] && [ $ mark -
then
echo "grade : B"
```

elif [$ marks -ge 60] && [$ marks -lt 70]

then
echo " grade : c "
elif [$ marks -ge 50] && [$ marks -lt 60]

then
echo " grade : d "
elif [$ marks -ge 40] && [$ marks -lt 50

then
echo " Grade : e "
~~elif [$ marks -ge 30] && [$ mark -lt 40]~~

~~then else~~
echo " failed "
fi

Output: Enter the marks
84
grade : A

lee
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-lt 90]

-lt 80]