Assignment 1

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Q1. Write a shell script to enter the value of two variables.

Perform the basic calculator operations and print the outputs.

```
-(kali@kali)-[~/Desktop/practice]
_s vi add
___(kali⊗ kali)-[~/Desktop/practice]
$ ./add
Addition of two numbers
Enter the 1 number
Enter the 2 number
3
Sum = 5
By expr shell
sum = 5
Subtracting
subtract= -1
Multiplication
Multiplication = 6
Division
Division = 0
(kali⊗ kali)-[~/Desktop/practice]
```

Q2. Write a shell script to read the marks of 5 subjects and find the percentage of the student

```
File Actions Edit View Help
└$ ./marks
Enter the 5 marks
60 60 60 60 60
percentage = 60
  —(kali⊗kali)-[~/Desktop/practice]
└$ vi marks
(kali@ kali)-[~/Desktop/practice]
state marks
echo "Enter the 5 marks"
read m1 m2 m3 m4 m5
sum = expr $m1 + m2 + m3 + m4 + m5
l=100
m=500
p=$((sum*l))
per=$((p/m))
echo "percentage = $per"
  -(kali@kali)-[~/Desktop/practice]
Enter the 5 marks
80 80 45 96 65
percentage = 73
  -(kali®kali)-[~/Desktop/practice]
```

Q3. WSS to enter the name of a file and display the content of the file and also append some more content into the same file and again print.

```
File Actions Edit View Help
130 🗙
echo "Enter the name of the file"
read x
echo "-
cat $x
echo "-
echo "add some new content to the same file $x"
echo "Content after append"
cat $x
(kali@ kali)-[~/Desktop/practice]
$ ./contentappend
Enter the name of the file
s1
cat: s1: No such file or directory
add some new content to the same file s1
sd
d
^C
___(kali⊛kali)-[~/Desktop/practice]
                                                                          130 ×
```

Q4. Take two values as input in the variable x and y and swap the values

- i) Use a 3rd variable
- ii) Do not use 3rd variable

```
(kali@ kali)-[~/Desktop/shiva]
style="font-size: 150%;">(kali@ kali)-[~/Desktop/shiva]
(kali@kali)-[~/Desktop/shiva]
stat swap
echo "Enter the value of x"
read x
echo "Enter the value of y"
read y
z=$x
x=$y
y=$z
echo "using third value will be x= $x y= $y"
echo "second method"
x=`expr $x + $y`
y=`expr $x - $y
x=`expr $x - $y`
echo "Not using third value x = $x y = $y"
(kali@kali)-[~/Desktop/shiva]
style="font-size: 150%;">(kali@kali)-[~/Desktop/shiva]
Enter the value of x
Enter the value of y
using third value will be x=25 y= 32
second method
Not using third value x = 32 y = 25
  —(kali®kali)-[~/Desktop/shiva]
```

Q5. Input the basic salary of an employee from the user.

His HRA is 30% of his basic and DA is 20 % of basic. Medical Allowances 10%

Calculate his total salary

6000

1800

1200

600

9600