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USP Lab

1) vowels.sh

```
echo "Enter a String to find no. of vowels"
read st
len = `expr $st | wc -c`
len = `expr $len -1`
count = 0
while [ $len -gt 0 ]
do
ch = `expr $st | cut -c $len`
Case $ch in
[a e i o u, A E I O U] Count = `expr Count + 1`;;
esac
len = `expr $len -1`
done
echo "No. of vowels in given String is $Count"
```

2) fibonacci

```
echo "How many no. of terms to be generated?"
read n
x = 0
y = 1
i = 2
echo "fibonacci Series up to $n terms:"
echo "$x"
echo "$y"
while [ $i -lt $n ]
do
```

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```
i = 'expr $i+1'
z = 'expr $x + $y'
echo "$z"
x = $y
y = $z
done
```

3)   Grade

```
echo Enter Marks 1
read m1
echo Enter Marks 2
read m2
echo Enter Marks 3
read m3
echo Enter Marks 4
read m4
echo Enter Marks 5
read m5
total = $(expr $m1 + $m2 + $m3 + $m4 + $m5)
avg = $(expr $tot / 5)
echo '|Student Mark List'  |
echo "Student name : $name"
echo "Register no. : $rno"
echo "Marks 1 : $m1"
echo "Marks 2 : $m2"
echo "Marks 3 : $m3"
echo "Marks 4 : $m4"
echo "Marks 5 : $m5"
```

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```
echo "Total : $tot"
echo "Average : $avg"
if [ $m1 -ge 35 ] && [ $m2 -ge 35 ] &&
   [ $m3 -ge 35 ] && [ $m4 -ge 35 ] &&
   [ $m5 -ge 35 ]
then
echo "Result : Pass"
if [ $avg -ge 90 ]
then
echo "Grade : S"
elif [ $avg -ge 80 ]
then
echo "Grade : A"
elif [ $avg -ge 70 ]
then
echo "Grade : B"
elif [ $avg -ge 60 ]
then
echo "Grade : C"
elif [ $avg -ge 50 ]
then
echo "Grade : D"
elif [ $avg -ge 35 ]
then
echo "Grade : E"
fi
else
echo "Result : fail"
fi
```