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Section	CSE-D

1	Write a script to find the greatest of three numbers.(pass numbers as command line parameters)
Solution (Shell script)	<pre> if [\$1 -gt \$2] then if [\$1 -gt \$3] then echo "\$1 is biggest" else echo "\$3 is biggest" fi else if [\$2 -gt \$3] then echo "\$2 is biggest" else echo "\$3 is biggest" fi fi </pre>

	<pre> "Q1.sh" [New] 16L, 177B written [root@localhost ~]# chmod +x Q1.sh [root@localhost ~]# ./Q1.sh 3 5 7 7 is biggest [root@localhost ~]# </pre>
Output	<pre> [root@localhost ~]# ./Q1.sh 3 5 7 7 is biggest </pre>
2.	Write a script to calculate the average of n numbers.
Solution (shell script)	<pre> echo "Enter number" read x sum=0 for ((i=1 ; i<=x ; i++)) do read n sum=\$((sum + n)) done avg=\$((sum / x)) echo "Average is \$avg" </pre>

Output	<pre>"Q2.sh" 10L, 136B written [root@localhost ~]# ./Q2.sh Enter number 4 3 3 3 3 Average is 3 [root@localhost ~]#</pre>
3.	Write a script to check whether the given number is prime.
Solution (shell script)	<pre>echo "Enter number" read n count=0 for ((i=1;i<=n;i++)) do if ["\$n / \$i" == 0] then count=count+1 fi done if [count==2] then echo "Number is prime" else echo "Number is not prime" fi</pre>

Output	<pre>"Q3.sh" 17L, 191B written [root@localhost ~]# ./Q3.sh Enter number 23 Number is prime [root@localhost ~]#</pre>
4.	Write a script to print the Fibonacci series up to n terms.
Solution (shell script)	<pre>echo "Enter number" read n a=0 b=1 sum=0 echo " \$a" echo " \$b" for ((i=2;i<n;i++)) do sum=\$((a+b)) a=\$b b=\$sum echo " \$sum" done</pre>

Output	<pre> "Q4.sh" 15L, 130B written [root@localhost ~]# ./Q4.sh Enter number 6 0 1 1 2 3 5 [root@localhost ~]# </pre>
5.	Write a script to calculate the factorial of a given number.
Solution (shell script)	<pre> echo "Enter number" read n fact=1 while [\$n -gt 1] do fact=\$((fact*n)) n=\$((n-1)) done echo "Factorial is \$fact" </pre>
Output	<pre> "Q5.sh" 9L, 116B written [root@localhost ~]# ./Q5.sh Enter number 5 Factorial is 120 [root@localhost ~]# </pre>

6.	Write a script to compute no. of characters and words in each line of a given file.
Solution (shell script)	<pre> echo "Enter file name" read file char=`cat \$file wc -c` words=`cat \$file wc -w` echo "No of Characters is \$char" echo "No of Words is \$words" </pre>
Output	<pre> "Q6.sh" 6L, 146B written [root@localhost ~]# ./Q6.sh Enter file name demo.txt No of Characters is 31 No of Words is 6 [root@localhost ~]# █ </pre>
7.	Write a script to calculate the sum of digits of the given number.
Solution (shell script)	<pre> echo "Enter number" read n sum=0 while [\$n -gt 0] do x=\$((n%10)) sum=\$((sum+x)) n=\$((n/10)) </pre>

	<pre>done echo "Sum is \$sum"</pre>
Output	<pre>"Q7.sh" 10L, 119B written [root@localhost ~]# ./Q7.sh Enter number 12 Sum is 3 [root@localhost ~]# ./Q7.sh Enter number 3456 Sum is 18 [root@localhost ~]#</pre>