

1.	<p><b>Write a shell program to print your name on the screen.</b></p> <pre> echo Enter your name: read name echo Hello \$name, how are you today? </pre>
2.	<p><b>Write a shell program to print the sum of two numbers.</b></p> <pre> echo enter first number: read num1 echo enter second number: read num2 sum=`expr \$num1 + \$num2` echo the sum is \$sum </pre>
3.	<p><b>Write a shell program to print the subtraction of two numbers.</b></p> <pre> echo Enter two numbers : read a b c=0 c=`expr \$a - \$b` echo The result is \$c </pre>
4.	<p><b>Write a shell program to print the multiplication of two numbers.</b></p> <pre> echo Enter two numbers : read a b c=`expr \$a \* \$b` echo The result is \$c </pre>
5.	<p><b>Write a shell program to print the division of two numbers.</b></p> <pre> echo Enter two Numbers : read a b c=0 c=`expr \$a / \$b` echo The result is \$c </pre>
6.	<p><b>Write a shell program to print the multiplication of two float numbers.</b></p> <pre> echo Enter two numbers: read a read b c=`echo \$a \* \$b  bc` echo The result of multiplication of two float numbers is \$c </pre>
7.	<p><b>Write a shell program to print the simple interest.</b></p> <pre> echo Enter P,N,R read p n r si=`echo \$p\*\$n\*\$r/100 bc` echo the simple interest is \$si </pre>

8.	<p><b>Write a shell program to print the area of rectangle.</b></p> <pre> echo Enter l and b for rectangle: read l b a=`echo \$l \* \$b   bc` echo The area of Rectangle is \$a </pre>
9.	<p><b>Write a shell program to print the area and perimeter of a circle.</b></p> <pre> echo Enter radius of the circle: read r s=`echo \$r \* \$r   bc` a=`echo \$s \* 3.14   bc` p=`echo \$r \* 2 \* 3.14   bc` echo The Area is \$a and Perimeter is \$p </pre>
10.	<p><b>Write a shell program to print the remainder after dividing the no by 3.</b></p> <pre> echo Enter number: read a s=`expr \$a / 3` r=`expr \$a % 3` echo The Result is \$s and Remainder is \$r </pre>
11.	<p><b>Write a shell program to concatenate the first name and last name.</b></p> <pre> echo Enter First Name: read n1 echo Enter Last Name: read n2 echo The Full Name is \$n1 \$n2 </pre>
12.	<p><b>Write a shell program to print the largest number between two numbers.</b></p> <pre> echo Enter two numbers : read a b if [ \$a -gt \$b ] then echo Largest number is \$a else echo largest number is \$b fi </pre>
13.	<p><b>Write a shell program to print the largest number between three numbers.</b></p> <pre> echo Enter three numbers: read a b c if [ \$a -gt \$b -a \$a -gt \$c ] then echo Largest number is \$a </pre>

	<pre> elif [ \$b -gt \$c -a \$b -gt \$a ] then echo largest number is \$b else echo Largest number is \$c fi </pre>
14.	<p><b>Write a shell program to print the average of three numbers.</b></p> <pre> echo Enter three numbers: read a b c s=0 s=`expr \$a + \$b + \$c` avg=`expr \$s / 3` echo The Sum is \$s and Averege is \$avg </pre>
15.	<p><b>Write a shell program to covert upper case to lower case.</b></p> <pre> echo Enter the file name to be translated: read name tr A-Z a-z &lt;\$name&gt; tfile mv tfile \$name </pre>
16.	<p><b>Write a shell program to print the number is even or odd.</b></p> <pre> echo Enter number: read a if [ `expr \$a % 2` -eq 0 ] then echo Number is even else echo Number is odd fi </pre>
17.	<p><b>Write a shell program to print the division of a student.</b></p> <pre> echo enter marks of a students in three subjects: read m1 read m2 read m3 s=`expr \$m1 + \$m2 + \$m3` p=`expr \$s / 3` if [ \$p -ge 75 ] then echo Pass with Hons, \$p% elif [ \$p -le 75 -a \$p -ge 60 ] then echo Pass with First Division, \$p% elif [ \$p -le 60 -a \$p -ge 50 ] then echo Pass with Second Division, \$p% elif [ \$p -lt 50 -a \$p -ge 40 ] then echo Pass with Third Division, \$p% else echo A student with \$p% is consider as FAIL fi </pre>

**18. Write a shell program to calculate the salary of an employee.**

```
echo Enter basic salary of employee
read bs
if [ $bs -lt 1500 ]
then
hra=`echo $bs \* 10 / 100 | bc`
da=`echo $bs \* 90 / 100 | bc`
else
hra=500
da=`echo $bs \* 98 / 100 | bc`
fi
gs=`echo $bs + $hra + $da | bc`
echo Gross Salary = Rs. $gs
```