UNIX LAB SESSION

TOPIC - **Functions**

**Useful Tools**

1. Below script as Add/Subtract/Multiply/Divide function and case to accept user choice

**#!/bin/ksh**

**Add() {**

**local x=$first**

**local y=$second**

**echo $(($x + $y))**

**}**

**Minus()**

**{**

**local x=$first**

**local y=$second**

**echo $(($x - $y))**

**}**

**Multiply()**

**{**

**local x=$first**

**local y=$second**

**echo $(($x \\* $y))**

**}**

**Divide()**

**{**

**local x=$first**

**local y=$second**

**echo $(($x / $y))**

**}**

**echo "Enter first value :"**

**read first**

**echo "Enter second value :"**

**read second**

**echo "Enter option :"**

**echo " -a = Add :"**

**echo " -b = Subtract :"**

**echo " -c = Multiply :"**

**echo " -d = Divide :"**

**echo " -o = Exit :"**

**read option**

**case $option in**

**-a) Add**

**;;**

**-b) Minus**

**;;**

**-c) Multiply**

**;;**

**-d) Divide**

**;;**

**-o) option=BREAK**

**;;**

**Esac**

1. **Write a factorial function which ask user to enter any no and you have to display factorial of the said no.**

**Enter No : 7**

**Factorial of 7 : 5040**

**Working.**

* **4!** = 4 × 3 × 2 × 1 = 24
* **7!** = 7 × 6 × 5 × 4 × 3 × 2 × 1 = 5040
* **1!** = 1

1. **Write a shell script which accept a numeric value between 1-10 , write the conversion function which display number in words.**

**Eg:**

**Enter no. beween 1-10 : 8**

**Number is : Eight**

**[optional ]**

**Write conversion function to display figure in words.**

**Enter Amount to be converted : 199512.25**

**Converted Amount : Rupees One lack ninety nine thousand five hundred and twelve paisa twenty five only.**

1. **Write a shell script which asks user his Name , Birthdate and Month and display his sun-sign**

**And display prediction for the day.**

**Aries Mar 21 - Apr 19**

**Taurus Apr 20 - May 20**

**Gemini May 21 - Jun 21**

**Cancer June 22 - July 22**

**Leo July 23 - Aug 22**

**Virgo Aug 23 - Sept 22**

**Libra Sep 23 - Oct 22**

**Scorpio Oct 23 - Nov 21**

**Sagittarius Nov 23 - Dec 21**

**Capricorn Dec 22 - Jan 19**

**Aquarius Jan 20 - Feb 18**

**Pisces Feb 19 - March 20**

1. **Go through below script and try to write on your own.**

**Test\_statement.sh**

**#!/bin/ksh**

**X=10**

**Y=10**

**if test "$X" -gt "$Y" ; then**

**echo "$X is greater than $Y"**

**elif test "$X" -lt "$Y" ; then**

**echo "$X is less than $Y"**

**else**

**echo "$X is equal to $Y"**

**fi**

1. **ARITHMETIC FUNCTION**

**Vi typeset.sh**

**#!/bin/ksh**

**typeset -i variable\_name # Declare integer**

**typeset -i num # num is declared as an integer**

**num=5+4**

**print $num #prints 9**

**(( n=5 + 5 )) # The let command**

**print $n # Prints 10**