Experiment-7 Alm: write Ruby program reads a number and calculates the factorial value at it and prints the same. Pub "Enter a number >>" n= gels. to-i the state of the s while iz=ndo 1=+*; [133,322] 3] 32 A 133 A 1+1=1 Puls "factorial of #{n} is #{ff" \$ ruby 7.76 Entera number factorial of 4 is 126

Am a text files using its regular Expressions facility

Bedraw

Print "Enter file name:";

frame = gets.chomps

count = IO. recidlines (frame). Bize

PUB "There are #{county lines on #{framey";

output & ruby regex. rb

Enter file regEx. 76

There are 5 lines in regEx. Yb

Experiment NO: 9 Alm: write a Ruby program the uses Herator to find out the length of a string brodian Point "Enter a string"." 3tr = gets. champ str. each_char do lil czc+1 end Puts "length of #{ Stry: #{c}" output: \$ ruby 9. vb Enter a string: hello vyshu rength of hello vyshu: 11

```
Experiment-10
   Alm: write simple Ruby Programs that uses arrays in Ruby
       Puts "Bubble Sort"
       RUK "====="
       Prints "Enter the size of the amay:"
        n=gels. to-i
        a = Amay. new(n)
        Puts "Enkn the elements:"
         for i in 0.00-1
         alij=gets.to-i
         #Bubble sort Algorithm
         Jor j m i.. n−1
          it (a[i] > a[i])
             t=a[i]
             ali]=a[i]
              a[i]=t
        Puts "After sorting:"
        for i in 0... n-1
         Print "# ¿asijj"
output of Bubble South
         Enter the size of away: 3
          Enter the elements:
          After sorting:
15 24 33
```

Experiment - 11 Almi unite programs which uses associative aways concept of Ruby. Program Creators = Harhinew; creators = { "java => "vvit", "webtechnologies" =) cse", "c (angrage" =)" lit" }; size = creators. length; Puls "size of happ is: # { size}"; creators, each do | key, val Puts "# { Key & invented by # { val}" \$ ruby 11. rb size of hash is: 3 java invented by wit Web technologies invented by the c language muented by it

Experiment -12 Durice a Ruby Program which uses math module to sound area of a briangle youtere Birt "Enler a, b, c values:" a=gels. to-i b=gets.to-i c=gets.to-i S=(a+b+c)/2 area = math. sqrt(s*(s-a)*(s-b)*(s-c)). round(2) Print "Area of Triangle # fareay" output \$ ruby 120xb Enter a, b, c values: Area of Triangle = 6.0

Experiment -13 AIM: write Ruby program which uses the module to display a window require 'tk' noot = TKRoot. new { title "Gui window"} TKlabel o new (rout) do text Hellowoodd! Pack ("side"=) "right", "Padx"=)"100", "Pady"=) "100") TK. mainloop Hello world

```
Experiment No: 15
Alm: write a program which illustrates the use of associative array
   in Perl
    1. ages = ('kiran' =) 19, 'vijay'=) 21, 'raju'=) 20);
     Print" original Array: /1";
      burt ========/".
      while (c$key) = each of ages)
       Print " Skey is Dages ( Skey & years old In";
        Sages { 'mayor' } = 24;
        Print "In Atter additing element: In";
        while (C skey) = each (ages)
          print " I key is Sages & Skey & years old/n's
        Lelete ( Bages & Wijay'));
        Print 11/nAster deleting element: /n"
        but, =========//,
       @ all - Keys = Keys (.1. ages);
        Pront "Keys are: @all-keysIn";
        @all_values =values (1. ages);
        print "values are : a get-values"
                                After deleting element:
     original Array:
     Kiran is 19 years old
                                  Keys are: newor kiran raju
      raju is 20 years old
                                  values one: 24 19 20
      vijay is 21 years old
      Atten adding element:
      vijay is 21 years old
      mayor is 24 years old
```

Kirnis la Years old

raju is 20 years old

```
Experient-16
AIM: write part program takes set names along the
command line and prints whether they are regular files or
special files
bendiere
   $lon = @ARGIVS
    for (8i=0; siz $len; 8i++)
       if (-e BARGN($i])
        ([it(-T BARGNESi])
            Print " $ ARGIV [$i] is a tent tile \n";
            print "BARGIV[$i] is a special file \n";
        else
          Print "BARGIV [$i] does not enists";
       $ pert 16. pl 45. pl
        45. pl does not exist
        3 per 1 16. P1 7.75
        Torb is a tent file
```

```
Experiment No: 17
AIM: write a pext program to implement UNIX 'Parred' Program
    my $ salt ="
     my senerypted = ";
      my & Parsword = "13
      my suse = 'Usage; Please Provide Password for encrypt';
       my @ saltchars= (1.1, 11, 0..9, 1A1.. 'Z', 'a'.. 'z);
       my Bargs = @ARGN;
       17 ( Bargs < 1 /1 Bargs > 2)
         print " $use In"3
          enit;
        & password = $ARGN [0];
         it ( sargs == 1)
          else
         $ salt=join (", @saltchars [rand(64), rand(64)]);
         $891+=$ARGV[1]3
        Generypted = crypt ( & parsword, $ salt)
        Print "$ password -> $ encrypted \n";
output: 3 perl -w 17. Pl hellomatri 9i
         hellomani -> gioEyCIOYJcCU
        & pext - wett-pl sacet123 a1
         sacet 123 -> a152 j1 As GRZ/.
```