**Basic Perl Program:**

###########################PRINT STATEMENTS##########################

**# Assignment 1: Write a perl script to take input from the user**

**#such as name,Roll,Department,Stream and diplay it with proper syntax.**

# it is Comment statement.

# Perl statements end in a semi-colon(;)

# this would print with a linebreak in the middle

print"hello\n world";

print "Hello

Anupam";

#variable declearation

$name=anupam;

#Variable print

print"\n$name";

############################STANDARD INPUT(<>)#######################

#<STDIN> stands for standard input.

#It can be abbreviated by using simple <>.

print "\nHow old are you?";

$age = <>;

print "WOW! You are $age years old!";

#####################################################################

**#Assignment : WAP in perl to take input from user terminal and display it by using chomp function.**

print "How old are you?";

chomp ($age = <>);

print "What is your favorite color?";

chomp ($color = <>);

print "You are $age, and your favorite color is $color.";

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**Upper Case & Lower Case**

print "What is your name?";

$name = <>;

print "What is your favorite color?";

$color = <>;

print "You are \U$name"; #\U for Upper Case Letter

print "\uand your favorite color is $color."; #\u for lower case letter

1. **Q. Write a simple Perl script to take input name, college, stream as a input from the terminal and display it.**

print "What is your name?";

$name=<>;

print "which college?";

$college=<>;

print "which stream?";

$stream=<>;

print "\nHello Mr.$name, So,you are in $college!!And your stream is$stream";

1. **Q. Write a Perl script to search a word from a sentence.**
2. **Using String matching method.**
3. **Using Substitution method.**

Answer:

1. $string = 'The cat sat on the mat';

$t=0;

$t = ($string =~ m/cat/);

print "Match = $t \n";

$string = 'The cat sat on the mat abc';

$string =~ s/cot/dog/;

print "Final Result is $string\n";

1. **Q. Write a Perl script to implement Celsius to Fahrenheit Converter**

# Print the prompt

print "Please enter a Celsius degree > ";

# Chop off the trailing newline character

chomp($cel = <STDIN>);

$fah = ($cel \* 1.8) + 32;

# print value using variable interpolation

print "The Fahrenheit equivalent of $cel degrees Celsius is $fah\n";

1. Q**.** **Write a Perl script to convert all lower case sentence to upper case.**

$string = 'The cat sat on the mat abc';

$string =~ tr/a-z/A-Z/;

print "Final Result is $string\n";

1. **Q. Write a Perl script to convert all first letter of a sentence to upper case.**

$string = 'The cat sat on the mat abc';

$string =~ tr/[' '][c+s]/[' '][C+S]/;

print "Final Result is $string\n";

1. **Q. Write a Perl script to implement the regular expression as follows:**

**A) If a string contains any vowel, counts the total number of vowels.**

@string = qw/The cat sat on the mat abc/;

$count=0;

foreach(@string)

{

$true=($\_ =~m/[a|e|i|o|u]/);

if ($true==1){

$count = $count + 1;

}

}

print "Total number of vowels is $count\n";

**B) If a string starts with MCA and end with bw, print 1 else 0.**

@list = qw/MCA food foosball subeo footnote terfoot canic footbrdige bw/;

foreach (@list)

{

$first = $1 if ?(MCA\*)?;

$last = $1 if /(bw)/;

}

print "First: $first, Last: $last\n";

1. **Implement the following with regular expression in Perl:**
2. **a\* at least 2 b’s**

$string = 'aaaaabbbbc';

$tr= ($string =~ m/a\*b{2,}/);

print "Final Result is $tr\n";

1. **a\* exactly 3 b’s**

$string = 'aaaaabbbbc';

$tr= ($string =~ m/a\*b{3}/);

print "Final Result is $tr\n";

1. **a\*bc**

$string = 'aaaaabbbbc';

$tr= ($string =~ m/a\*bc/);

print "Final Result is $tr\n";

1. **Q. Write a perl script to implement associative array.**

%lookup = ("dave", 1234, #lookup is an associative array name

"peter", 3456,

"andrew", 6789);

$lookup{"adam"} = 3845; #You can create new elements by assignments to new keys

# delete adam from code list

delete $lookup{"peter"};

@names = keys(%lookup);

print "@names\n";

@codes = values(%lookup);

print "@codes\n";