**Unix Lab Assignment 11**

**Aim : To implement Perl Script**

1. **Assign values for datatypes as indicated in brackets and display Student( your) details: Roll No (Scalar), Name(Array of 3),  Age(scalar), GPA for 3 semesters(Hashes(Sem,GPA)).**

**Executable Code:**

#!/bin/perl

$roll=77;

@names=("Rander", "Darshan", "Dev");

$age=19;

%pa=('Sem 1','7','Sem 2','8','Sem 3','9');

print "Name: $names[0] $names[1] $names[2]\n";

print "Roll Number: $roll\n";

print "Age: $age\n";

print "Sem 1 GPA: $pa{'Sem 1'}\n";

print "Sem 2 GPA: $pa{'Sem 2'}\n";

print "Sem 3 GPA: $pa{'Sem 3'}\n";

**Output :**

┌──(Darshan㉿)-[~/Desktop/Unix\_lab/Assignment11]

└─$ perl values.pl

Name: Rander Darshan Dev

Roll Number: 77

Age: 19

Sem 1 GPA: 7

Sem 2 GPA: 8

Sem 3 GPA: 9

1. **Display power table of your n = (Roll number mod 5)+4, up to n to the power 5.**

**Executable Code:**

#!/bin/perl

print " Enter your Roll Number: ";

$roll=<>;

$num = $roll % 5;

$final = $num + 4;

for($i=0; $i<6; $i++)

{

$power = $final \*\* $i;

print " $final raised to the power $i = $power \n";

}

**Output :**

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└─$ perl power.pl

Enter your Roll Number: 77

6 raised to the power 0 = 1

6 raised to the power 1 = 6

6 raised to the power 2 = 36

6 raised to the power 3 = 216

6 raised to the power 4 = 1296

6 raised to the power 5 = 7776

1. **Calculate amount to be paid for given principal amount, simple rate of interest and time in years.**

**Executable Code:**

#!/bin/perl

print " Enter Principal amount to check: ";

$principal=<>;

chomp($principal);

print " Enter Rate in % : ";

$rate=<>;

chomp($rate);

print " Enter Time in years : ";

$time=<>;

chomp($time);

$si = $principal \* $rate \* $time / 100;

$sum = $si + $principal;

print " Simple interest for the given principle is $si and total amount to be paid is $sum \n";

**Output :**

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└─$ perl prime.pl

Enter Principal amount to check: 1500

Enter Rate in % : 9

Enter Time in years : 2

Simple interest for the given principle is 270 and total amount to be paid is 1770