

Unix Lab Assignment 11**Aim :** To implement Perl Script

- A. 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
```

B. Display power table of your $n = (\text{Roll number mod } 5) + 4$, 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 :

```
(Darshan@DESKTOP-N6TIT67)-[~/Desktop/Unix_lab/Assignment11]
$ 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
```

C. 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 :

```
└─(Darshan@DESKTOP-N6TIT67)-[~/Desktop/Unix_lab/Assignment11]
└─$ 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
```