

## Assignment No : 8

#terminal commands

step1: sudo apt update  
step2: enter password  
step3: sudo apt install ruby-full  
step4: check version of ruby  
      ruby --version

```
pccoe@pccoe-Lenovo-Product:~$ ruby --version
ruby 2.7.0p0 (2019-12-25 revision 647ee6f091) [x86_64-linux-gnu]
```

```
print "Enter your first name: "
first_name= gets.chomp

print "Enter your last name: "
last_name= gets.chomp

full_name="#{last_name} #{first_name}"
reverse_name=full_name.reverse

puts "your name in reverse order is: #{reverse_name}"
```

```
puts
pccoe@pccoe-Lenovo-Product:~/Desktop$ ruby reverse_name.rb
Enter your first name: arjun
Enter your last name: dhole
your name in reverse order is: nujra elohd
```

```
print "Enter your first name: "
first_name= gets.chomp

print "Enter your last name: "
last_name= gets.chomp

full_name="#{last_name} #{first_name}"
reverse_name=full_name.reverse
puts"-----variation 1-----"

puts "your name in reverse order is: #{reverse_name}"
```

```
puts"-----variation 2-----"
```

```
x, y, z = 12, 36, 72
```

```
puts "The value of x is #{ x }."
```

```
puts "The sum of x and y is #{ x + y }."
```

```
puts "The average was #{ (x + y + z)/3 }."
```

```
puts"-----variation 3-----"
```

```
add_str= last_name + first_name
```

```
puts"your name is : #{add_str}"
```

```
puts"-----variation 4-----"
```

```
puts "Put in a number"
```

```
a = gets.chomp.to_i
```

```
if a == 3
```

```
  puts "a is 3"
```

```
elsif a == 4
```

```
  puts "a is 4"
```

```
else
```

```
  puts "a is neither 3, nor 4"
```

```
end
```

```
puts"-----variation 5-----"
```

```
print 'Hi there! What is your name? '
```

```
usr_name = gets.chomp
```

```
print 'And your favorite color is? '
```

```
usr_color = gets.chomp
```

```
puts "\n#{usr_name}, I like the #{usr_color} color too :)"
```

```
-----variation 2-----  
The value of x is 12.  
The sum of x and y is 48.  
The average was 40.
```

```
-----variation 5-----  
Hi there! What is your name? Arjun  
And your favorite color is? orange  
  
Arjun, I like the orange color too :)
```

## 6. Calculate Power of number

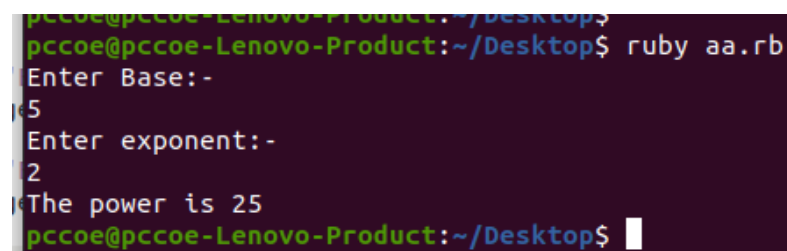
```
=begin
Ruby program to calculate power of a number.
=end
```

```
def pow(a,b)
    power=1
    for i in 1..b
        power=power*a
    end
    return power
end

puts "Enter Base:-"
base=gets.chomp.to_i

puts "Enter exponent:-"
expo=gets.chomp.to_i

puts "The power is #{pow(base,expo)}"
```



```
pccoe@pccoe-Lenovo-Product:~/Desktop$
pccoe@pccoe-Lenovo-Product:~/Desktop$ ruby aa.rb
Enter Base:-
5
Enter exponent:-
2
The power is 25
pccoe@pccoe-Lenovo-Product:~/Desktop$
```

## 7. Area of rectangle

```
=begin
```

Ruby program to find Area of Rectangle.

```
=end
```

```
# input length and breadth, and
```

```
# convert them to float value
```

```
puts "Enter length:"
```

```
l=gets.chomp.to_f
```

```
puts "Enter width:"
```

```
w=gets.chomp.to_f
```

```
# calculating area
```

```
area=l*w
```

```
# printing the result
```

```
puts "Area of Rectangle is #{area}"
```

```
pccoe@pccoe-Lenovo-Product:~/Desktop$ ruby aa.rb
Enter length:
12
Enter width:
20
Area of Rectangle is 240.0
pccoe@pccoe-Lenovo-Product:~/Desktop$
```

## 8. Addition of two numbers

```
=begin
```

Ruby program to add two numbers.

```
=end
```

```
# input the numbers and converting
```

```
# them into integer
```

```
puts "Enter first value: "
```

```
num1=gets.chomp.to_i
```

```
puts "Enter second value: "
```

```
num2=gets.chomp.to_i
```

```
# finding sum
```

```
sum=num1+num2
```

```
# printing the result
```

```
puts "The sum is #{sum}"
```

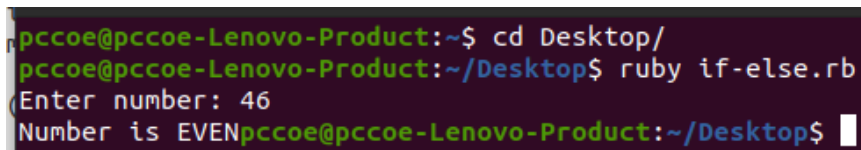
```
pccoe@pccoe-Lenovo-Product:~/Desktop$ ruby ab.rb
Enter first value:
50
Enter second value:
60
The sum is 110
pccoe@pccoe-Lenovo-Product:~/Desktop$
```

## 9. Even or odd number

```
print "Enter number: ";
num = gets.chomp.to_i;

if(num%2 == 0)
  print ("Number is EVEN");
end

if(num%2 != 0)
  print ("Number is ODD");
end
```



A terminal window with a dark purple background. The prompt is 'pccoe@pccoe-Lenovo-Product:~\$'. The user enters 'cd Desktop/' and the prompt changes to 'pccoe@pccoe-Lenovo-Product:~/Desktop\$'. The user enters 'ruby if-else.rb' and the prompt changes to 'pccoe@pccoe-Lenovo-Product:~/Desktop\$'. The program outputs 'Enter number: 46' and 'Number is EVEN'. The prompt is 'pccoe@pccoe-Lenovo-Product:~/Desktop\$'.

```
pccoe@pccoe-Lenovo-Product:~$ cd Desktop/
pccoe@pccoe-Lenovo-Product:~/Desktop$ ruby if-else.rb
Enter number: 46
Number is EVENpccoe@pccoe-Lenovo-Product:~/Desktop$
```

## 10. largest number

```
print "Enter number1: ";
num1 = gets.chomp.to_i;

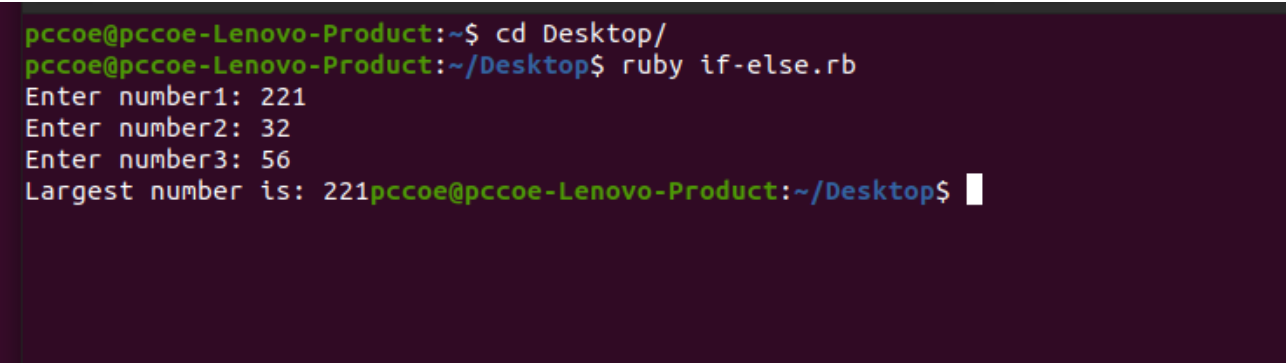
print "Enter number2: ";
num2 = gets.chomp.to_i;

print "Enter number3: ";
num3 = gets.chomp.to_i;

if(num1>num2 && num1>num3)
```

```
    large=num1;
elsif(num2>num1 && num2>num3)
    large=num2;
else
    large=num3;
end

print "Largest number is: ",large;
```



```
pccoe@pccoe-Lenovo-Product:~$ cd Desktop/
pccoe@pccoe-Lenovo-Product:~/Desktop$ ruby if-else.rb
Enter number1: 221
Enter number2: 32
Enter number3: 56
Largest number is: 221pccoe@pccoe-Lenovo-Product:~/Desktop$
```

A terminal window screenshot with a dark purple background. It shows the execution of a Ruby script. The user navigates to the Desktop directory and runs 'ruby if-else.rb'. The script prompts for three numbers: 221, 32, and 56. It then outputs 'Largest number is: 221' before the prompt returns.