Quiz 2

1. Ruby program when that accepts a date in a month and prints it out the appropriate suffix. For example, for 1 as input, print 1st, 2 as input 2nd, 3 as input 3rd etc

Date = gets.to_i

case Date
when 1
        puts "#{Date}st"
when 2
         puts "#{Date}nd"
when 3
        puts "#{Date}rd"
else
        puts "#{Date}th"
end

2. Write your own ruby program using a case statement

$salary = 2000
case $salary
when 0 .. 3000
   puts "Lower class"
when 3001 .. 60000
   puts "Medium class"
else
   puts "Rich"
end

3. Ruby Program that iterates numbers with upto loop

```
1.upto(10) do |num|
puts ""+ num.to_s
end
```

4. Write a Ruby program to print numbers from 1 to 50 and also in reverse order
range = (1..50).to_a
puts "#{range}"
puts "#{range.reverse}"

5. Write your own Ruby program using loops and iterators. Explain the difference between loops, iterators and blocks

Loop:
```
for i in 0..5
   puts "Value of local variable is #{i}"
end
```

iterators:
```
1.upto(10) do |num|
puts ""+ num.to_s
end
```

6.   Write a Ruby program that loops through a array and checks if a pattern exists in the array elements

7. Write your own Ruby program using a Hash that loops through :

Print all Values while looping with Keys
Print all Keys while looping through Values
Print Keys, Values as pair.

H = Hash["a" => 100, "b" => 200]

H.each do |key, value|

      puts " the key is #{key}"
      puts "The value is #{value}"
      puts "the key and value is: #{key}, #{value}"
end

8. Write a Ruby program that takes number as input and recursively calculates the power of 2 until the calculated number is less than 10000 and prints the maximum power for that number.

num = gets.to_i
puts num*num

9. Ruby program to convert Celsius temperature to Fahrenheit
puts "Enter a Celsius value "
tem = gets.to_i
puts tem*1.8+32

10. Write a program to create a Calculator class with add(), substract(), multiply() and divide(), then take two numbers and choice of operation from user and display output using objects

```ruby
class Calculator
        puts " enter the number1"
        in1=gets.to_i
        puts " enter the number2"
        in2=gets.to_i
        puts "enter the operator"
        op=gets.chomp
case op
when '+'
   plus=in1+in2
   puts "#{in1+in2}"
   #puts "#{plus}"

when '-'
   min=in1-in2
   puts "#{min}"
when '*'
   mul= in1*in2
   puts "#{mul}"
when '/'
   div=in1/in2
   puts "#{div}"
else
   puts "invalid operator"
end
end
```