**Assignment1:**  
Define variables x, y, z and Allocate values 12,26,72 using parallel assignment  
Display the result as: "The Value of 12+26 is: 38” using interpolation (don’t hard code, use variable)  
Display the result as: "The Value of 72-26 is: 46” using interpolation (don’t hard code, use variable)

x,y,z = 12,26,72  
puts **"The value of x+y is"**, x+y  
puts **"The value of z-y is"**, z-y

**Assignment2:**  
s="This is the ruby programming" (don’t hard code, use variable. Pass the variable in the method)  
Display this string as "This Is The Ruby Programming"

**class** *Aditya* **def** ruby(*x*)  
 puts (*x*)  
 **end  
end**a=Aditya.new  
a.ruby(**"This Is The Ruby Programming"**)

**Assignment3:**  
s=" Hello world" (don’t hard code, use variable. Pass the variable in the method)  
Reading and display, how many 'l' letters are in the string?

**class** *Aditya* **def** repeat(*text*)  
 s=*text* s=*text*.chars.count { |*char*| *text*.*count*(*char*) > 1 }  
 puts s  
 **end  
end**a=Aditya.new  
a.repeat(**"Helllllo"**)

**Assignment4:**  
Create a Class with 3 methods  
1st method: should take 1 string and the same string should be displayed reverse as output  
Example: If we pass "STRESS", result should be displayed as "SSERTS"  
  
2nd method: should take a string as PPNM345675, method should return output as "PPNM"  
  
3rd method: should take a string as "BANANA", result should be displayed as "BAJANA"

**class** *Aditya* **def** method1(*text*)  
 puts (*text*).reverse  
 **end** a=Aditya.new  
 a.method1(**"STRESS"**)  
 **def** method2(*text*)  
 s=(*text*).slice(0,4)  
 puts s  
 **end** b=Aditya.new  
 b.method2(**"PPNM23456"**)  
 **def** method3(*text*)  
 s=(*text*).sub(**"N"**,**"J"**)  
 puts s  
 **end** c=Aditya.new  
 c.method3(**"BANANA"**)  
**end**

**Assignment5:**  
Create a class with 1 method. Pass a string in the method, the method should return length of the string

**class** *Aditya* **def** method1(*text*)  
 puts *text*.length  
 **end**obj=Aditya.new  
obj.method1(**"ANDROMEDA"**)  
**end**

**Assignment6:**  
if marks are greater than 50 print "That's more than half as big as it could be!  
marks  are 42, print "That's the ultimate magic number!!!!  
marks are lessthan 10, print "That's pretty small, actually"  
otherwise , print "What a boring number."

**class** *Aditya***def** method(*var*)  
 **if** *var* > 50  
 puts **"That's more than half as big as it could be!"  
 elsif** *var* == 42  
 puts **"That's the ultimate magic number!!!!"  
 elsif** *var* < 10  
 puts **"That's pretty small, actually"  
 else** puts **"What a boring number."  
end  
end  
end**a=Aditya.new  
a.method(7)

**Assignment7:**  
Define a class with a method, Method should Accept 2 values PPNM34567 and a number.  
Take the number portion from the first value add it to the second number which is passed and display the result.

**class** *Aditya* **def** method(*text*,*val*)  
 s=(*text*).slice(4,5)  
 puts s  
 s1=s.concat(*val*.to\_s)  
 puts s1  
 **end  
end**a=Aditya.new  
a.method(**"PPNM34567"**,555551)

**Assignment8:**  
Create a class with a method, Pass "12345" as string, and pass a numeric value as 12345. Compare the the values and display result as True/False

**class** *Aditya* **def** method(*v1*,*v2*)  
 **if** *v1* == *v2*.to\_s  
 puts **"True"  
 else** puts **"False"  
 end  
 end  
end**a=Aditya.new  
a.method(**"5689"**,5689)

**Assignment9:**  
Declare an array with 7 elements and get the size of the array and print all the values of array.

**class** *Aditya* **def** a  
**end**val = ['51','aditya','43','74','95','66','57']  
s=val.length  
 puts **"Length of the Array is"**, s  
 s1=val.inspect  
 puts **"The elements of the Array are"**, s1  
 **end**b=Aditya.new  
b.a

**Assignment10:**  
Declare string x  
  
x="Hello this is great Program"  
  
I need result x as "Great Program"  
  
I need result x as "Great Ruby Program"  
  
I need result x as ""Sweet Ruby Program"  
  
I need result x as ""Sweet Ruby"  
  
I need result x as ""Ruby"  
  
I need result x as "Done"  
  
I need result "Today’s date is xxxx"  
  
Note: "Don't directly print using command puts "Done"/"Great Program",.....  
  
use the inbuilt functions to replace, slice, insert,.....

**SOLUTION:**

**Assignment11:**  
  
Create a classwith the name "Assignment2" which should have 3 methods named replace, slice, upcase and should be able to accept   
a string  
  
1st method, should be able to replace character  
2nd method, should be able to slice the string   
3rd method, should be able to change to uppercase  
  
  
Create Instance/object of the class Assignment2 and call the methods passing a string.

**class** *Assignment2* **def** replace(*text*)  
 s=(*text*)  
 puts s1=s.sub!(/(.)(.)/,'\2\1')  
 **end**a=Assignment2.new  
a.replace(**"Assignment"**)  
  
 **def** slice(*text*)  
 s=(*text*)  
 s1=s.slice(0,4)  
 puts s1  
 **end**b=Assignment2.new  
b.slice(**"Assignment"**)  
 **def** upcase(*text*)  
 s=(*text*)  
 s1=s.upcase  
 puts s1  
 **end** c=Assignment2.new  
 c.upcase(**"Assignment"**)  
**end**

**Assignment12:**  
  
Create a class with the name "TypeOfPerson" which should have 1 method named "persontype" and should be able to accept   
a value  
1st method, should be able to accept the age, validate and print "Person is teenager" if the age of the person is <=19, if the age is >19 and <=50 "Person is middle aged", if the age is >50 then   
print "Person is old"  
  
  
Create Instance/object of the class and call the method "persontype" passing a value

**class** *TypeOfPerson* **def** persontype(*val*)  
 **if** *val* <=19  
 puts **"Person is teenager"  
 elsif** *val* >19 **and** *val* <=50  
 puts **"Person is middle aged"  
 else** puts **"Person is old"  
 end  
 end  
end**a=TypeOfPerson.new  
a.persontype(51)

**Assignment13:**

Write a method flip

Parameters: String input, Integer left Index  
input -- the input string to operate on  
left Index -- the index of the left character in the flip

Returns: String  
Returns the input string with two characters flipped: the character at left Index and the character at leftIndex+1.

Note that left Index cannot exceed the string's length minus one, e.g., if the string is 6 characters long then left Index cannot exceed 4.

**Assignment 14:**

Count the number of each of all the characters present in the string you pass

Ex: ravi

a = 2 n = 1 u =1 s =1 h =1

*str* = **"ravii"***counts* = []  
*str*.chars.chunk(&**:itself**).each { |*char*, *chars*|  
 *counts* << [*char*, *chars*.length]  
}  
puts *counts*.inspect

**Assignment 15:**

 What is the output of the code?

**print** "What's your first name?"

first\_name=**gets**.**chomp**

a=first\_name.capitalize

first\_name.capitalize!

**print** "What's your last name?"

last\_name=**gets**.**chomp**

b=last\_name.capitalize

last\_name.capitalize!

**puts** "My name is #{first\_name} #{last\_name}"

Answer: What's your first name?

**Assignment 16:**

Write a program to reverse the string?

s=**"samsQA"**

**class** *Aditya* **def** a(*text*)  
 s=*text* s1=s.reverse  
 puts s1  
 **end  
end**b=Aditya.new  
b.a(**"samsQA"**)

**Assignment 17:**

Write a program to get the array size. ***A***=[2,**'abc'**,4]

print ***A***.size

**Assignment 18:**

**module *MathUtils* def self**.*average*(*a*, *b*)  
 **return** *a* + *b* / 2  
 **end  
end**puts ***MathUtils***.*average*(2,1.0)