SYMBIOSIS INSTITUTE OF TECHNOLOGY (SIT)
Constituent of Symbiosis International (Deemed University), Pune
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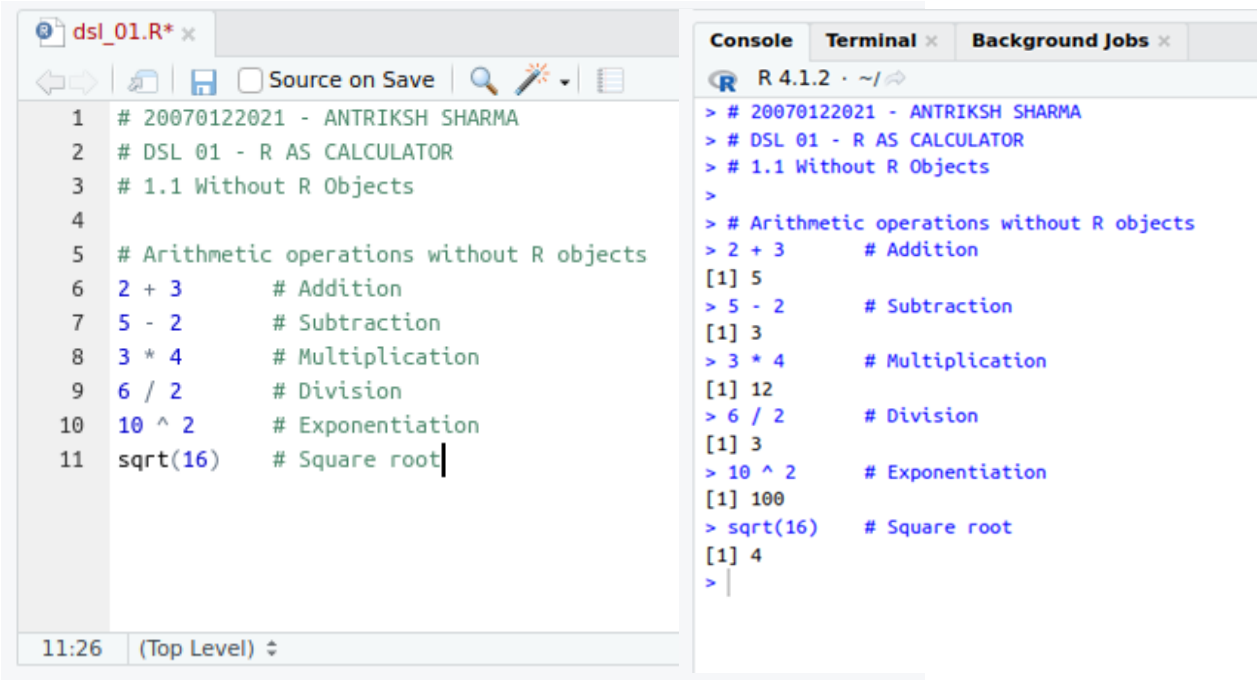
॥वसुधैव कुटुम्बकम्॥ Re-Accredited by NAAC with 'A' Grade

Assignment No. 01	
Name of Student	**Antriksh Sharma**
PRN No.	**20070122021**
Title of Lab Assignment	**Use R As a Calculator Application** **a) Using with and without R objects on console** **b) Using mathematical functions on console** c) **Write an R script, to create R objects for calculator application and save in a specified location in disk**

Code & Output:

A. Using with and without R objects on console



B. Using mathematical functions on console

C. Write an R script, to create R objects for calculator application and save in a specified location in disk

dsl_01.R*

Source on Save

```r
#1.3 Save R Objects

# Function to add two numbers
add <- function(x, y) {
  return(x + y)
}
# Function to subtract two numbers
subtract <- function(x, y) {
  return(x - y)
}
# Function to multiply two numbers
multiply <- function(x, y) {
  return(x * y)
}
# Function to divide two numbers
divide <- function(x, y) {
  if (y != 0) {
    return(x / y)
  } else {
    cat("Error: Cannot divide by zero.\n")
    return(NA)
  }
}
# Save R objects into a file
saveRObjects <- function() {
  x <- 5
  y <- 3
  sum <- add(x, y)
  difference <- subtract(x, y)
  product <- multiply(x, y)
  quotient <- divide(x, y)

  # Save the R objects into a file named "calculator_objects.RData"
  save(sum, difference, product, quotient, file = "calculator_objects.RData")

  cat("R objects saved successfully.\n")
}

# Call the saveRObjects function to create R objects and save them to disk
saveRObjects()

# Load R objects from the saved file
load("calculator_objects.RData")

# Now, you can access the loaded objects
print(sum)
print(difference)
print(product)
print(quotient)
```

```
> saveRObjects()
R objects saved successfully.
>
> # Load R objects from the saved file
> load("calculator_objects.RData")
>
> # Now, you can access the loaded objects
> print(sum)
[1] 8
> print(difference)
[1] 2
> print(product)
[1] 15
> print(quotient)
[1] 1.666667
>
```

Conclusion: *We've learnt how to* use R As a Calculator Application

Faculty Name: Mr. Sachin R. Gaikwad