22238_MDSC_201_Assignment 3

Srihari.M

```
squ <- function(n)
{
  for(i in 1:n)
  {
    ans <- i^2
    print(ans)
  }

}

squ(2)
```

```
## [1] 1
## [1] 4
```

```
print("Square of first 10 elements!")
```

```
## [1] "Square of first 10 elements!"
```

```
squ <- function()
{
  for(i in 1:10)
  {
    ans <- i^2
    print(ans)
  }
}

squ()
```

```
## [1] 1
## [1] 4
## [1] 9
## [1] 16
## [1] 25
## [1] 36
## [1] 49
## [1] 64
## [1] 81
## [1] 100
```

```
print("function printing x*y+z^2")
```

```
## [1] "function printing x*y+z^2"
```

```
exp <- function(x,y,z)
{
  ans <- x*y+z^2
  print(ans)
  sprintf("x = %f, y = %f, z = %f",x,y,z)
}
exp(x=2,y=3,z=4)
```

```
## [1] 22

## [1] "x = 2.000000, y = 3.000000, z = 4.000000"
```

```
print("Function to multiply 2 values")
```

```
## [1] "Function to multiply 2 values"
```

```
mul <- function(x,y)
{
  ans <- x*y
  print(ans)
  sprintf("x = %f, y = %f",x,y)
}

mul(x=2,y=4)
```

```
## [1] 8

## [1] "x = 2.000000, y = 4.000000"
```

```
print("A function to print the values passed and the square of the first element")
```

```
## [1] "A function to print the values passed and the square of the first element"
```

```
exp <- function(a,b)
{
  ans <- a^2
  cat("The square of first element : ",ans)
  cat("\n\n")
  sprintf("\n\nThe values passed to the function : A = %f, B = %f", a,b)
}

exp(a=10,b=20)
```

```
## The square of first element :  100

## [1] "\n\nThe values passed to the function : A = 10.000000, B = 20.000000"
```

```r
print("Experimenting with String in R")
```

```
## [1] "Experimenting with String in R"
```

```r
cat("\n\n\n\n")
```

```r
mes1 <- "Hi!, This is Srihari"

mes2 <- "Do you want to learn a new language?"

mes3 <- "Let's learn R language"

print(mes1)
```

```
## [1] "Hi!, This is Srihari"
```

```r
cat("\n\n")
```

```r
print(mes2)
```

```
## [1] "Do you want to learn a new language?"
```

```r
cat("\n\n")
```

```r
print(mes3)
```

```
## [1] "Let's learn R language"
```