KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of the UGC Act, 1956

DA LAB 2

Name – Pushkal Mondal

Roll no. – 1906625

Branch – Information Technology

Code –

1
```
name_625 = readline("Enter your name : ");
age_625 = readline("Enter your age : ");
print(name_625)
print(age_625)
```

2.
```
roll_625 <- 1906625
name_625 <- "Pushkal Mondal"
branch_625 <- "IT"
print(roll_625)
print(name_625)
print(branch_625)
```

3.
```
var1_625 <- 42
var2_625 <- 31
print ("Sum is :")
print(var1_625 + var2_625)
print ("Multiplication is :")
print(var1_625 * var2_625)
print("Subtraction is :")
print(var1_625 - var2_625)
print("Division is :")
print(var1_625 / var2_625)
```

4.
```
n_625 = as.integer(readline("Enter a number : "))
s = 0

while (n_625 > 0){
  r = n_625%%10
```

```
  s = s + r
  n_625 = n_625%/%10
}
print(paste("sume of digits is :", s))
```

5.

```
r_625 = as.integer(readline("Enter radius of circle : "))
pi <- 3.14
area_625 = pi * r_625^2
cir_625 = 2 * pi * r
print(area_625)
print(cir_625)
```

6.

```
seq_625 <- c(20 : 50)
print(seq_625)
x_625 <- c(20 : 60)
result.mean <- mean(x_625)
print(result.mean)
n_625 <- c(51 : 91)
result.sum <- sum(n_625)
print(result.sum)
```

7.

```
ran_625 <- runif(n = 10, min = -50, max = 50)
print(ran_625)
```

8.

```
ran_625 <- runif(n = 10, min = 2, max = 15)
print(ran_625)
print(paste ("max : ",max(ran_625)))
print(paste ("min : ",min(ran_625)))
```

9.

```
num_625 <- c(1 : 10)
```

```
char_625 <- c("c", "x", "v")
bool_625 <- c(TRUE, TRUE, FALSE)
print (typeof(num_625))
print (typeof(char_625))
print (typeof(bool_625))
```

10.

```
num_625 <- c(10 : 25)
print(paste("Sum is :", sum(num_625)))
print(paste("Product is :", prod(num_625)))
print(paste("Mean is :", mean(num_625)))
```

Output -

```
R 4.1.2 · ~/
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg1.R")
Enter your name : Pushkal Mondal
Enter your age : 21
[1] "Pushkal Mondal"
[1] "21"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg2.R")
[1] 1906625
[1] "Pushkal Mondal"
[1] "IT"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg3.R")
[1] "Sum is :"
[1] 73
[1] "Multiplication is :"
[1] 1302
[1] "Subtraction is :"
[1] 11
[1] "Division is :"
[1] 1.354839
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg4.R")
Enter a number : 261
[1] "sume of digits is : 9"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg5.R")
Enter radius of circle : 2
[1] 12.56
[1] 12.56
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg6.R")
 [1] 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
[30] 49 50
[1] 40
[1] 2911
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg7.R")
 [1]  39.122325  43.365957   1.081171 -32.358641  -3.558154 -12.247197 -39.911560  13.259004
 [9]  15.828356  18.060964
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg8.R")
 [1]  6.883715  2.654328  4.851456  2.144858 10.180918 10.900220  9.825060  2.356023
 [9]  5.145659  2.096342
[1] "max :  10.900220223004"
[1] "min :  2.09634195384569"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg9.R")
[1] "integer"
[1] "character"
[1] "logical"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 2/pg10.R")
[1] "Sum is : 280"
[1] "Product is : 42744736671436800000"
[1] "Mean is : 17.5"
>
```