



KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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

DA LAB 1

Name – Pushkal Mondal

Roll no. – 1906625

Branch – Information Technology

Code –

1.1

```
str <- "Example"
print(str)
print(typeof(str))
num <- 24.2
print(num)
print(typeof(num))
vec <- c(0,1,2,3)
print(vec)
rm(list = ls())
```

1.2

```
str <- "Example"
cat("str is a ", class(str), "\n")
num <- 24.2
cat("num is a ", class(num), "\n")
vec <- c(0,1,2,3)
cat ("vec is a ", class(vec), "\n")
rm(list = ls())
bool <- TRUE
cat ("bool is a ", class(bool), "\n")
```

1.3

```
name <- "Pushkal"
roll <- "1906625"
branch <- "IT"
print(name)
print(roll)
print(branch)
```

1.4

```
num1 <- 42
```

```
num2 <- 5
print(num1 + num2)
print(num1 - num2)
print(num1 * num2)
print(num1 / num2)
```

```
1.5
x1 <- c(1:10)
x2 <- c(2:11)
print(setequal(x1, x2))
```

```
1.6
vec1 <- c(1, 0, 1, 0, 1, 1)
vec2 <- c(1, 1, 1, 1, 0, 1)
print (vec1 * vec2)
```

```
1.7
x <- c("h", "e", "l", "l", "o")
print(paste(x, collapse = ""))
```

```
1.8
x <- c(2:10)
print(length(x))
x = x*3
y <- c(1:9)
print (x + y)
```

```
1.9
vec1 <- c(82, 41, 20 , 99, 101, 22, 92)
print(vec1[ vec1>80 & vec1<100 ])
vec2 <- c("word", "find", "hello", "no")
print(vec2[vec2 == "find"])
```

Output -

```
Console Terminal x Jobs x
R 4.1.2 · ~/
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.1.r")
[1] "Example"
[1] "character"
[1] 24.2
[1] "double"
[1] 0 1 2 3
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.2.r")
str is a character
num is a numeric
vec is a numeric
bool is a logical
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.3.r")
[1] "Pushkal"
[1] "1906625"
[1] "IT"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.4.r")
[1] 47
[1] 37
[1] 210
[1] 8.4
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.5.r")
[1] FALSE
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.6.r")
[1] 1 0 1 0 0 1
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.7.r")
[1] "hello"
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.8.r")
[1] 9
[1] 7 11 15 19 23 27 31 35 39
> source("C:/Users/KIIT/Desktop/Year 3/DA LAB/LAB 1/1.9.r")
[1] 82 99 92
[1] "find"
> |
```