21BDS0340

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Exploratory Data Analysis Lab

Experiment – I

Code:

# branching with if

x = 5

if (x == 5) {

print("x is greater than 5")

}

Output:

[1] "x is greater than 5"

Code:

# branching with if... else

x = 2

if (x > 3) {

print("x is greater than 3")

} else {

print("x is less than or equal to 3")

}

Output:

[1] "x is less than or equal to 3"

Code:

# branching with if... else if... else

x = 3

if (x > 3) {

print("x is greater than 3")

} else if (x < 3) {

print("x is less than 3")

} else {

print("x is equal to 3")

}

Output:

[1] "x is equal to 3"

Code:

# looping with range

for (i in 1:5) {

print(i)

}

Output:

[1] 1

[1] 2

[1] 3

[1] 4

[1] 5

Code:

# looping through elements

names = c("abhinav", "tanush", "dinesh", "sumathi")

for (name in names) {

print(name)

}

Output:

[1] "abhinav"

[1] "tanush"

[1] "dinesh"

[1] "sumathi"

Code:

# while loop

x = 0

while (x < 5) {

print(x)

x = x + 1

}

Output:

[1] 0

[1] 1

[1] 2

[1] 3

[1] 4

Code:

# repeat loop

x = 1

repeat {

print(x)

if (x >= 5) {

break

}

x = x + 1

}

Output:

[1] 1

[1] 2

[1] 3

[1] 4

[1] 5

Code:

# branching and looping combo

for (x in 0:10) {

if (x %% 2 == 0) {

print(paste(x, "is even"))

} else {

print(paste(x, "is odd"))

}

}

Output:

[1] "0 is even"

[1] "1 is odd"

[1] "2 is even"

[1] "3 is odd"

[1] "4 is even"

[1] "5 is odd"

[1] "6 is even"

[1] "7 is odd"

[1] "8 is even"

[1] "9 is odd"

[1] "10 is even"