**PYTHON**

**LAB 2**

**While Loop**

# Python program to illustrate while loop

count = 0

while count < 3:

count = count + 1

print("Hello Geek")

**Output:**

Hello Geek

Hello Geek

Hello Geek

**Single statement while block**

# Python program to illustrate single statement while block

count = 0

while count == 0: print("Hello zain")

**Output:**

Hello zain

**For Loop - Iterating over a list**

# Python program to illustrate iterating over a list

print("List Iteration")

l = ["geeks", "for", "geeks"]

for i in l:

print(i)

**Output:**

List Iteration

geeks

for

geeks

**For Loop - Iterating over a tuple**

# Python program to illustrate iterating over a tuple

print("\nTuple Iteration")

t = ("geeks", "for", "geeks")

for i in t:

print(i)

**Output:**

Tuple Iteration

geeks

for

geeks

**For Loop - Iterating over a string**

# Python program to illustrate iterating over a string

print("\nString Iteration")

s = "Geeks"

for i in s:

print(i)

**Output:**

String Iteration

G

e

e

k

s

**For Loop - Iterating by index of sequences**

# Python program to illustrate iterating by index

list = ["geeks", "for", "geeks"]

for index in range(len(list)):

print(list[index])

**Output:**

geeks

for

geeks

**Continue Statement**

# Python program to illustrate continue statement

for letter in 'geeksforgeeks':

if letter == 'e' or letter == 's':

continue

print('Current Letter:', letter)

**Output:**

Current Letter: g

Current Letter: k

Current Letter: f

Current Letter: o

Current Letter: r

g

Current Letter: g

Current Letter: k

**Break Statement**

# Python program to illustrate break statement

for letter in 'geeksforgeeks':

if letter == 'e' or letter == 's':

break

print('Current Letter:', letter)

**Output:**

Current Letter: g

**Function Definition and Calling**

# Python program to illustrate function definition and calling

def my\_function():

print("Hello from a function")

my\_function()

**Output:**

Hello from a function

**Function with Parameters**

# Python program to illustrate function with parameters

def my\_function(fname):

print(fname + " Refsnes")

my\_function("Emil")

my\_function("Tobias")

my\_function("Linus")

**Output:**

Emil Refsnes

Tobias Refsnes

Linus Refsnes

**Function with Default Parameter Value**

# Python program to illustrate function with default parameter value

def my\_function(country="Norway"):

print("I am from " + country)

my\_function("Sweden")

my\_function("India")

my\_function()

my\_function("Brazil")

**Output:**

I am from Sweden

I am from India

I am from Norway

I am from Brazil

**Function with List Parameter**

# Python program to illustrate function with list parameter

def my\_function(food):

for x in food:

print(x)

fruits = ["apple", "banana", "cherry"]

my\_function(fruits)

**Output:**

apple

banana

cherry

**Function with Return Value**

# Python program to illustrate function with return value

def my\_function(x):

return 5 \* x

print(my\_function(3))

print(my\_function(5))

print(my\_function(9))

**Output:**

15

25

45

**Function with Keyword Arguments**

# Python program to illustrate function with keyword arguments

def my\_function(child3, child2, child1):

print("The youngest child is " + child3)

my\_function(child1="Emil", child2="Tobias", child3="Linus")

**Output:**

The youngest child is Linus

**Class and Object Creation**

# Python program to illustrate class and object creation

class MyClass:

x = 5

p1 = MyClass()

print(p1.x)

**Output:**

5

**Class with init () Function**

# Python program to illustrate class with init () function

class Person:

def \_\_init\_\_(self, name, age):

self.name = name

self.age = age

p1 = Person("ALI", 36)

print(p1.name)

print(p1.age)

**Output:**

ALI

36

**Object Method**

# Python program to illustrate object method

class Person:

def \_\_init\_\_(self, name, age):

self.name = name

self.age = age

def myfunc(self):

print("Hello my name is " + self.name)

p1 = Person("ALI", 36)

p1.myfunc()

**Output:**

Hello my name is ALI

Top of Form

Bottom of Form