**HW5**

**Please execute the following in Python and copy-paste your comments in the dedicated field given below each task.**

**1)** Create a list containing the following elements:

[1, 6, 12, 15, 21, 24, 30, 36]

Construct a loop that outputs the numbers from this list divisible to 6.

#!/usr/bin/env python

# coding: utf-8

# In[1]:

list = [1, 6, 12, 15, 21, 24, 30, 36]

# In[2]:

list

# In[3]:

for num in list:

if num % 6 == 0:

print(num)

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

**2)** Write Python script that calculates body mass index (BMI) of a person. BMI is weight in kilograms divided by height in meters squared.

#!/usr/bin/env python

# coding: utf-8

# In[1]:

def calculate\_bmi(weight, height):

bmi = weight / (height \*\* 2)

return bmi

weight = float(input("Enter weight in kilograms: "))

height = float(input("Enter height in meters: "))

bmi = calculate\_bmi(weight, height)

bmi

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

**3)** Repeat task 1&2 by using R scripting language.

Task 1:

list <- c(1, 6, 12, 15, 21, 24, 30, 36)

metin içeren bir resim

Açıklama otomatik olarak oluşturuldu

Task2:

calculate\_bmi <- function(weight, height) {

bmi <- weight / (height \* height)

return(bmi)

}

bmi <- calculate\_bmi(57, 1.63)

print(bmi)

