

*DEPARTMENT OF SOFTWARE*

*ENGINEERING*

***ASSIGNMENT***

**DATE OF SUBMISSION**

**18TH July 2023**

* **Course Title:** Data Science and Analytics
* **Section:** II
* **Roll no:** 20SW054
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* **Task lab :** 2

***Submitted to:***

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# TASK 1 :

Assigning values to variables

variable1 = 42

variable2 = "Hello, World!"

Printing out a sentence with the values of the variables using .format()

print("The value of variable1 is {} and the value of variable2 is '{}'.".format(variable1, variable2))

# TASK 2 :

my\_string = "hello world"

print(my\_string.upper())

my\_string = "HELLO WORLD"

print(my\_string.lower())

my\_string = "hello world"

print(my\_string.capitalize())

# Assigning values to variables

variable1 = 10

variable2 = "Hello"

print("The value of variable1 is {} and the value of variable2 is {}.".format(variable1, variable2))

# TASK 3 :

month = 7

num\_days = 0

if month == 1:

num\_days = 28

elif month in [3, 5, 8, 10]:

num\_days = 30

else:

num\_days = 31

print("The number of days in the given month is:", num\_days)

task 2:

my\_string = "hello world"

print(my\_string.upper())

my\_string = "HELLO WORLD"

print(my\_string.lower())

my\_string = "hello world"

print(my\_string.capitalize())

# Assigning values to variables

variable1 = 10

variable2 = "Hello"

print("The value of variable1 is {} and the value of variable2 is {}.".format(variable1, variable2))

# TASK 4 :

eclipse\_dates = ['June 21, 2001', 'December 4, 2002', 'November 23, 2003', 'March 29, 2006', 'August 1, 2008', 'July 22, 2009', 'July 11, 2010', 'November 13, 2012', 'March 20, 2015', 'March 9, 2016']

# Select the last three elements of the list

recent\_dates = eclipse\_dates[-3:]

# Print the last three elements

print(recent\_dates)

# TASK 5 :

students = {

'student1': {

'name': 'John Doe',

'age': 18,

'grade': 'A',

'subjects': ['Math', 'Science', 'English']

},

'student2': {

'name': 'Jane Smith',

'age': 17,

'grade': 'B',

'subjects': ['Math', 'History', 'Art']

},

'student3': {

'name': 'Tom Williams',

'age': 19,

'grade': 'A',

'subjects': ['Physics', 'Chemistry', 'Biology']

}

}

# Accessing student data

print(students['student1']['name']) # Output: John Doe

print(students['student2']['age']) # Output: 17

print(students['student3']['subjects'][0]) # Output: Physics