



COMSATS University Islamabad, Wah Campus
Electrical & Computer Engineering Department

Lab Rubrics Evaluation sheet

Fall 2023

Program: BCS

Section: 7C

Subject: Artificial Intelligence

Reg #: FA20-BCS-073, FA20-BCS-157

Lab No: 01

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Lab Instructor: Engr.Adnan Saleem Mughal

Date: September 27, 2023

Title of experiment: Introduction to Anaconda/Python.

• **Objectives:**□

- The objective of this lab is to introduce participants to Anaconda and Python, providing them with the necessary skills to set up the Anaconda environment, understand Python basics, and use Anaconda for package management and project isolation.
- Participants will become familiar with python programming and how to set of coding environment for python.

• **Tools:**□□

I have utilized Spyder.

LAB TASKS

Question No: 01

Print your name and Reg No.

Code:

```
print("Aleena")
```

```
print("FA20-BCS-073")
```

```
print("Fatima Zamir")
```

```
print("FA20-BCS-157")
```

```
Aleena  
FA20-BCS-073  
Fatima Zamir  
FA20-BCS-157
```

Question No: 02

Take two variables and perform different mathematical operations on them and also use type.

Code:

```
num1 = 3
```

```
num2 = 2
```

```
Sum = num1 + num2
```

```
print("Sum = ", Sum)
```

```
sub = num1 - num2
```

```
print("Sub = ", sub)
```

```
mul = num1 * num2
```

```
print("Mul = ", mul)
```

```
print(type(mul))
```

```
div = num1/num2
```

```
print("Div = ", div)
```

```
print(type(div))
```

```
Sum = 5
Sub = 1
Mul = 6
<class 'int'>
Div = 1.5
<class 'float'>

In [23]:
```

Question No: 03

Write a Python program to print the following string in a specific format.

Code:

```
print("Twinkle, twinkle, little star,\n\n\t\t\tHow I wonder what you are!\n\n\t\t\tUp above the world so high,\n\n\t\t\tLike a diamond in the sky.\n\nTwinkle, twinkle, little star,\n\n\t\t\tHow I wonder what you are")
```

```
Twinkle, twinkle, little star,
\t\t\tHow I wonder what you are!
\t\t\tUp above the world so high,
\t\t\tLike a diamond in the sky.
Twinkle, twinkle, little star,
\t\t\tHow I wonder what you are
```

Question No: 04

Write a Python program to get the Python version you are using

Code:

```
import sys

print("Python Version We are using:")

print(sys.version)
```

```
Python Version We are using:  
3.11.4 | packaged by Anaconda, Inc. | (main, Jul 5 2023, 13:38:37)  
[MSC v.1916 64 bit (AMD64)]
```

Question No: 05

Write a Python program to display the current date and time.

Code:

```
import datetime  
  
currentDT = datetime.datetime.now()  
  
print("Current date and time : ")  
  
print(currentDT.strftime("%Y-%m-%d %H:%M:%S"))
```

```
Current date and time :  
2023-09-26 17:16:49
```

Question No: 06

Write a Python program to display the examination schedule.

Code:

```
exam_st_date = (11,12,2014)  
  
print( "The examination will start from : %i / %i / %i"%exam_st_date)
```

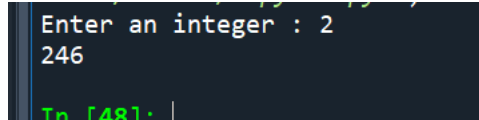
```
The examination will start from : 11 / 12 / 2014
```

Question No: 07

Write a Python program that accepts an integer (n) and computes the value of n+nn+nnn.

Code:

```
var = int(input("Enter an integer : "))  
n1 = int( "%s" % var )  
n2 = int( "%s%s" % (var,var) )  
n3 = int( "%s%s%s" % (var,var,var) ) print  
(n1+n2+n3)
```



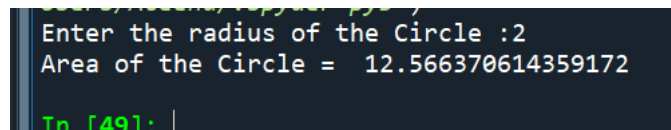
```
Enter an integer : 2  
246  
In [48]:
```

Question No: 08

Write a Python program which accepts the radius of a circle from the user and compute the area.

Code:

```
from math import pi  
radius = float(input ("Enter the radius of the Circle :"))  
print("Area of the Circle = ", pi*radius**2)
```



```
Enter the radius of the Circle :2  
Area of the Circle = 12.566370614359172  
In [49]:
```

Question No: 09

Write a Python program which accepts the user's first and last name and print them in reverse order with a space between them. Code:

```
firstName = input("Enter you First Name: ")  
lastName = input("Enter you Last Name: ")  
print(lastName, "", firstName)
```

```
C:\Users\Aleena>python3.py  
Enter you First Name: Aleena  
Enter you Last Name: Khan  
Khan Aleena  
In [51]:
```

Question No: 10

Write a Python program to print the calendar of a given month and year.

Code:

```
import calendar
```

```
month = int(input("Enter the Month: "))
```

```
year = int(input("Enter the Year: "))
```

```
print(calendar.month(year, month))
```

```
Enter the Month: 9  
Enter the Year: 2023  
September 2023  
Mo Tu We Th Fr Sa Su  
          1  2  3  
 4  5  6  7  8  9 10  
11 12 13 14 15 16 17  
18 19 20 21 22 23 24  
25 26 27 28 29 30
```