আন্তর্জাতিক ইসলামী বিশ্ববিদ্যালয় চট্টগ্রাম

الجامعة الإسلامية العالمية شيتاغونغ

International Islamic University Chittagong

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

(Lab Report-2)

Course Code	**CSE-3636**
Course Title	**Artificial Intelligence Lab**
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Submitted To
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Section	**6BM**
Semester	$6th$

Task 01:

Python :

Python is a popular programming language. It was developed by Guido van Rossum and made available in 1991.

It is used for:

1. web development (server-side),
2. software development,
3. Mathematics,
4. system scripting.

I shall learn python because

1. Python operates on numerous platforms (Windows, Mac, Linux, Raspberry Pi, etc).
2. Python's syntax is comparable to that of the English language.
3. Python's syntax enables programmers to write code with fewer lines than other programming languages.
4. Python operates on an interpreter system, which means that code can be executed immediately after being written. This means that rapid prototyping is possible.
5. Python can be approached procedurally, object-orientedly, or functionally.

Task 02:

```
name = "Tanvir Hasan Sohan"
id = "C193042"
department = "CSE"

semester = "6th"

section = "6BM"
```

```
print ("Name :"+name+"\n" "Id :"+id+"\n" "Department :"+department+"\n" "Semester :"+semester+"\n" "section :"+section+"\n")
```

Output

```
Name :Tanvir Hasan Sohan
Id :C193042
Department :CSE
Semester :6th
section :6BM

################################

=> Single-line comment use to #
Expl :  #comment single-line

=> multiple-line comment use start ' ' '  end ' ' '
Expl :
 ' ' '
Name :Tanvir Hasan Sohan
Id :C193042
Department :CSE
Semester :6th
section :6BM
' ' '
```

String : Strings are sequences of character data. The string type in Python is called str.

Expl :

```
print ("Tanvir Hasan Sohan")
```

Output : Tanvir Hasan Sohan

Integer : Python interprets a sequence of decimal digits without any prefix to be a decimal number:
Expl : print(10)

Output : 10

Float : The float type in Python designates a floating-point number.
Expl :
print(2.1)

Output : 2.1

Task 03:

```
import math
a= 25
b=4
addition= a+b
subtraction= a-b
quotient= a/b
multiplication=a*b
remainder= a%b
power = pow(a,b)
print("addition :",addition)
print("subtraction :",subtraction)
print("quotient :",quotient)
print("multiplication :",multiplication)
print("remainder :",remainder)
print("floor value :",math.floor(quotient))
print("Power :",power)
```

Output :
addition : 29
subtraction : 21
quotient : 6.25

multiplication : 100
remainder : 1
floor value : 6
Power : 390625
multiplication : 100

Display your Name, Age, and CGPA from user input using python:

```
name = input("Name : ")
age = input("Age :")
cgpa = input("cgpa :")
print ("Name :"+name+"\n" "Id :"+age+"\n" "Department :"+cgpa+"\n")
```