

# COMP801 – WEEK 1 – EXERCISES

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## OBJECTIVES

- Able to use different data types
- Able to use the print() function to display information or outputs
- Able to covert values from string to integer or vice versa

## BACKGROUND:

You are given the following code:

```
subjectCode = "MATH123"
subjectName = "Fundamental Mathematic"
subjectCredit = "6 credit points"
totalStudents = 300
totalDMarks = "25"
aveFinalMark = 73.2022
```

## USEFUL FUNCTIONS:

- type (x) : get the data type of variable x
- print (x): print the value of x on the screen
- int(x): convert x from a string to an integer value
- str(x): convert x from an integer to a string value

## QUESTIONS:

For each of the following questions, you have to write a python code, run it, and check your answer.

- 1) What is the data type of each variables for the given code?
- 2) What is the output of the code below?

```
print("subjectCode + subjectName + totalStudents")
```



**3) What is the output of the following statement?**

```
print("I like the subject.")
```

**4) Write a statement to print out your full name**

**5) What is the result of the below statement?**

```
print(subjectCode)
```

**6) What is the output of the following code?**

```
print(subjectCode + "subjectName + totalStudents")
```

**7) What is the output of the following code?**

```
print(subjectCode + ", " + subjectName + ", " + "totalStudents")
```

**8) Write one print statement using the above variables and string addition to produce exactly the following result?**

```
MATH123 - Fundamental Mathematic subject has 6 credit points.
```

**9) Write one print statement using the above variables and string addition to produce exactly the following result?**

```
MATH123 - Fundamental Mathematic subject has "6 credit points".
```

**10) Write one print statement using the above variables and string addition to produce exactly the following result?**

```
MATH123: 300 enrolled students, 73.2022 % average final grade.
```

**11) What is the result of the following statement?**

```
print(totalStudents - totalDMarks)
```

**12) What is the result of the following statements?**

```
x = int(totalDMarks)
```

```
print(x)
```



**13) What is the result of the following statement?**

```
print(totalStudents - int(totalDMarks))
```

**14) What is the result of the following statements?**

```
x = str(totalStudents)

print(totalStudents - totalDMarks)
```

**15) What is the result of the following statements?**

```
print("COMP801")

print("Python Programming for Cyber Security")

print("Session 1 - 2023")
```

**16) What is the result of the following statements?**

```
print("COMP801")

print()

print("Python Programming for Cyber Security")

print()

print("Session 1 - 2023")
```

**17) What is the result of the following statements?**

```
print("COMP801", end = ", ")

print("Python Programming for Cyber Security", end = ", ")

print("Session 1 - 2023")
```

**18) What is the result of the following statements?**

```
print("COMP801", end = ", ")

print("Python Programming for Cyber Security", end = ", ")
```



```
print("Session 1 - 2023")
```

**19) What is the result of the following statements?**

```
x = "ngoc"
```

```
x1 = "ngoc"
```

```
x2 = "ngoc "
```

```
x3 = " ngoc"
```

```
x4 = "Ngoc"
```

```
x5 = "NGOC"
```

```
x6 = "ngocl"
```

```
print("Type of x and x6 is the same? :", type(x) == type(x6))
```

```
print("Compare value of x with values of x1, x2, x3, x4,x5,x6")
```

```
print("compare "+ x + " with "+ x1 + ": ", x == x1)
```

```
print("compare "+ x + " with "+ x2 + ": ", x == x2)
```

```
print("compare "+ x + " with "+ x3 + ": ", x == x3)
```

```
print("compare "+ x + " with "+ x4 + ": ", x == x4)
```

```
print("compare "+ x + " with "+ x5 + ": ", x == x5)
```

```
print("compare "+ x + " with "+ x6 + ": ", x == x6)
```

