

COMP801 – WEEK 1 – EXERCISES

OBJECTIVES

- Able to use different data types
- Able to use the print() function to display information or outputs
- Able to convert 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")
```



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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)
```

