# Introduction to Computer Programming – 2017

# Syntax Test – Group A

**NAME:**

**COURSE:**

**PERSONAL TUTOR:**

**STUDENT ID:**

The time allowed for this test is 30 minutes. When you are instructed to do so, open the paper and begin. Your answers should be written on the paper as indicated for each question. No other working may be submitted.

The paper contains 10 questions and they should all be attempted. The questions have approximately equal weighting and to pass, you will need complete and accurate answers to most of the questions.

1. Predict the value of C (be precise).

```
A = 0
B = "True"
C = B == A
```

Answer .....

2. Predict the types.

```
A = "True"
```

Answer .....

```
A = 1+2.0
```

Answer .....

```
A = 2 > 2
```

Answer .....

3. Predict the value of A.

```
A = [3,4,5]
A[0] = A[1]
```

Answer .....

4. Predict the value of C.

```
A = "Hello "
B = "World"
C = (A+B).find('W')
```

Answer .....

5. Circle the 3 errors and explain in a couple of words how each breaks Python's syntax rules.

```
# Ask the user to pick a word
Word = input("Pick a word")

# Ask the user to pick a number
    Number = input("Pick a number between 0 and "+str(len(Word)-1))

""" Print all the letters in the word on a separate line,
skip over the characters equal to the one in position 'Number' """

for Char in Word
    if (not Char=Word[int(Number)]):
        print(Char)
```

6. What does the program print?

```
Fact = 3
Mult = 1
for Num in range(Fact):
    Mult = Mult +Num**2

if Mult <= 10:
    print(str(Mult*Fact))
else:
    print(Mult)
```

Answer .....

7. Predict the value of B.

```
A = [(1,2),(3,4)]
B = A[0][1]
```

Answer .....

8. Predict the value of B.

```
A = {4,5,6}
A.add(6)
B = len(A)
```

Answer .....

9. Circle the 2 errors and explain in a couple of words why each raises an error in Python.

```
# Predefined dictionary
Fondue = {"Bread":3,"Cheese":15,"Garlic":0.5}

Total = 0

# Calculate the price to make a fondue
for Num in Fondue.values:
Total = Total + Num

# Print the total price
print(Total)
```

10. Predict the value of B.

```
PlayerID = [1,4,5,3,1,2,2]
PlayerID.append(3)
PlayerID.remove(5)
B = PlayerID[6]
```

Answer .....