

Submit your work as a **Microsoft Word** file on Canvas **before the end of the tutorial session**.

Name your file in following format: **TutEx1_SID_LastName_FirstName**

Remember to type **your name** and **student ID** on top of the **answer sheet**.

Q1) Write a Python program to check whether the value of the variable “a” is even or odd. If “a” is odd, the program prints the value of “a” to the power of 3. If “a” is even, then the program prints the value of “a” to the power of 4. You can use the remainder command “%” to check whether “a” is even or odd (see the lecture notes).

a) Check your code for a=10 and a=15. Include the output of your code in the answer sheet.

b) Include your Python code in the answer sheet.

5 marks

Answer:

```
a=15
```

```
if a%2==0:
```

```
    print('a^3 is',a**3)
```

```
if a%2!=0:
```

```
    print("a^4 is", a**4)
```

Q2) Write a Python program to check the lengths of two lists. Your program should print which list is longer. If they have the same length, it should print the two lists have the same length. You can use the “len()” command to compute the length of a list.

- a) Check your code for the following lists: “Computational” and “[1,2,3]”. Include the output of your code in the answer sheet.
- b) Check your code for the following lists: “Black” and “[1,2, 'a', 'b',6]”. Include the output of your code in the answer sheet.
- c) Include your code in the answer sheet.

5 marks

Answer:

```
b='word'
```

```
c=[1,2,3,4,5]
```

```
if len(b)>len(c):
```

```
    print(b, 'is longer than', c)
```

```
if len(b)<len(c):
```

```
    print(c, 'is longer than', b)
```

```
if len(b)==len(c):
```

```
    print(c, 'and', b, 'have the same length')
```