Assignment template using LATEX

Cheng Ho Ming, Eric (3036216734) [Class Section]

Wednesday 25th December, 2024 10:53

Question 1

- (a) $E = mc^2$
- (b) 1



Figure 1: A smily face

(c) print(chr(sum(range(ord(min(str(not())))))))

Question 2

(a)

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

(b)

(i)

The pseudocode for Euclid's algorithm is as follows:

Algorithm 1 Euclid's algorithm

Find the greatest common divisor of two numbers.

```
1: procedure EUCLID(a,b)

2: r \leftarrow a \mod b

3: while r \neq 0 do

4: a \leftarrow b

5: b \leftarrow r

6: r \leftarrow a \mod b

7: end while

8: return b

9: end procedure
```

(ii)

The Python code for the Euclid's algorithm is as follows:

```
def euclid(a: int, b: int) -> int:
    r: int = a % b
    while r != 0:
        a, b = b, r
        r = a % b
    return b
```

(iii)

