Task1

Exam 1 :

Examples of imperative programming languages include C, C++, Java and Fortra

Code : **small\_nums = []**

**for i in range(20):**

**if i < 6:**

**small\_nums.append(i)**

Declarative examples . HTML, CSS, Miranda and Prolog. Code

small\_nums = [x for x in range(20) if x < 6]

Procedural examples Examples of procedural languages include BASIC, FORTRAN, ALGOL, C, COBOL, and Pascal.

Non pprocedural examples Examples of non-procedural languages include LISP, SQL, PROLOG

Exam 2

not case sensitive languages

.Some examples of these programming languages include Ada, Fortran, SQL, and Pascal

Exam 3

how does python deal with large number

Python uses Bignum Arithmetic to represent integers

Exam 4

What is a NullPointerException

There are two overarching types of variables in Java

1: Primitives

2: References

Exam 5

auto garbage collection languages

C# and Java

not auto garbage collection languages

C and C++

Exam 6

what's the difference between heap and stack

Stack variables can’t be resized whereas Heap variables can be resized.

Stack memory is allocated in a contiguous block whereas Heap memory is allocated in any random order.

Stack doesn’t require to de-allocate variables whereas in Heap de-allocation is needed.