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PROJECT REPORT

Advance Software Engineering (DSM: 2021-2022)

**Answer to the question no. 1**

**Assignment Code:** After implementing each of the module I pushed my code on my [Github/fs-wise2122](https://github.com/AhmedDiderRahat/fs-wise2122) link.

**Answer to the question no. 2**

UML Diagram: UML stands for Unified Modeling Language. Its help to specify, visualize, and document models of software systems, including their structure and design.

These portion I will expalin 3 standard UML diagrams:

1. Use case diagram
2. Activity diagram
3. Class diagram

* **Use Case Diagram:** In my use case diagram there are 2 actors and 7 use case. The figure is stored into ‘*fs-wise2122\report\Diagram*’ this directory.
* **Activity diagram:** In activity diagram we can see the interaction between each activity to others. The figure is stored into ‘*fs-wise2122\report\Diagram*’ this directory.

**Answer to the question no. 3**

I elemenate the two large element just intutionally. So, the approach is not always produce good

**Answer to the question no. 4**

The underlying mathematical or combinatorial conceptis power set. Because we have to generate all possible solution of the original tasks.

**Answer to the question no. 5**

The implementation of this question are given in ‘Question\_5.py’ file.

**Answer to the question no. 6**

If the given input is 0 to 2 then the function return 2^3 output sequence. The function has a loop inside it.

**Answer to the question no. 7**

For the given task, with 11 elements the program create 2^11 = 2048 list items. And for n element the items should be 2^n.

**Answer to the question no. 8**

generator of the list that have been prodecure on the otherhand **’return’** statement returned the whole object.