P3. Explain De Morgan's I aw using a simple and relatable example by creating a rule using any of the provided variables.

As per the De Morgans law "not (A and B)" is equivalent to "(not A) or (not B)" And also,

"not (A or B)" is equivalent to "not(A) and not(B)"

For this problem let's assume a simple rule:

For all participants, below the age of 18 and age above 80 receive "Decline" and rest other receive "Review"

Code snippet to check this condition in python:

```
if( not (age<18 and age>80)):
return "Review"
else: return "Decline"
```

Mathematical expression would be:

And as per the De Morgan's law the equivalent expression will be:

Let's take age of applicant = 17, expression 1 resolves to TRUE and so is expression 2.