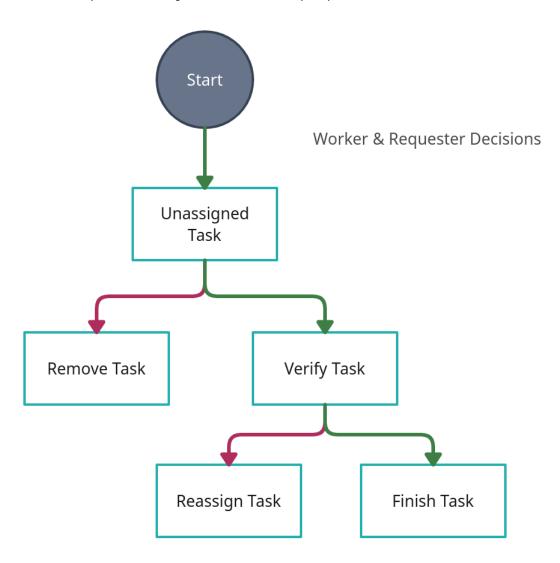
## Completed tasks

import random as rand

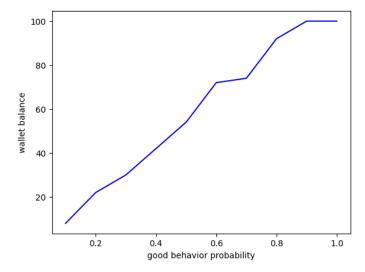
The number of tasks performed according to the level of well-behaved participants



```
\tt def\ calculateRequesterBalance(decisionProbability,\ taskCount):
  if decisionProbability < 0 or decisionProbability > 1:
    raise ValueError(decisionProbability, "Args must be between 0 and 1")
    result = 0
    for i in range(0, taskCount):
      goodBehaviorProbability = rand.random()
      waitUntilTaskDoneProbability = goodBehaviorProbability / 10
      finishTaskProbability = goodBehaviorProbability * 9 / 10
      # Requester waits until done task
      if waitUntilTaskDoneProbability <= decisionProbability:</pre>
        # Finish task by requester
        if finishTaskProbability <= decisionProbability:</pre>
          result = result + 1
        # Unfinish task
    return result / taskCount
  return
import matplotlib.pyplot as plt
import numpy as np
def showFinishedTasksCount(testCount):
  requesterInitialBalance = rand.randint(10, 20)
  probabilities = [0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1]
```

```
outputs = [calculateRequesterBalance(i, testCount) * testCount for i in probabilities]
plt.plot(probabilities, outputs, 'b-')
plt.xlabel("good behavior probability")
plt.ylabel("wallet balance")
plt.show()
```

 $\verb|showFinishedTasksCount(100)|\\$ 



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✓ 0s completed at 3:02 PM