

IMPLEMENTATION OF TOY PROBLEMS

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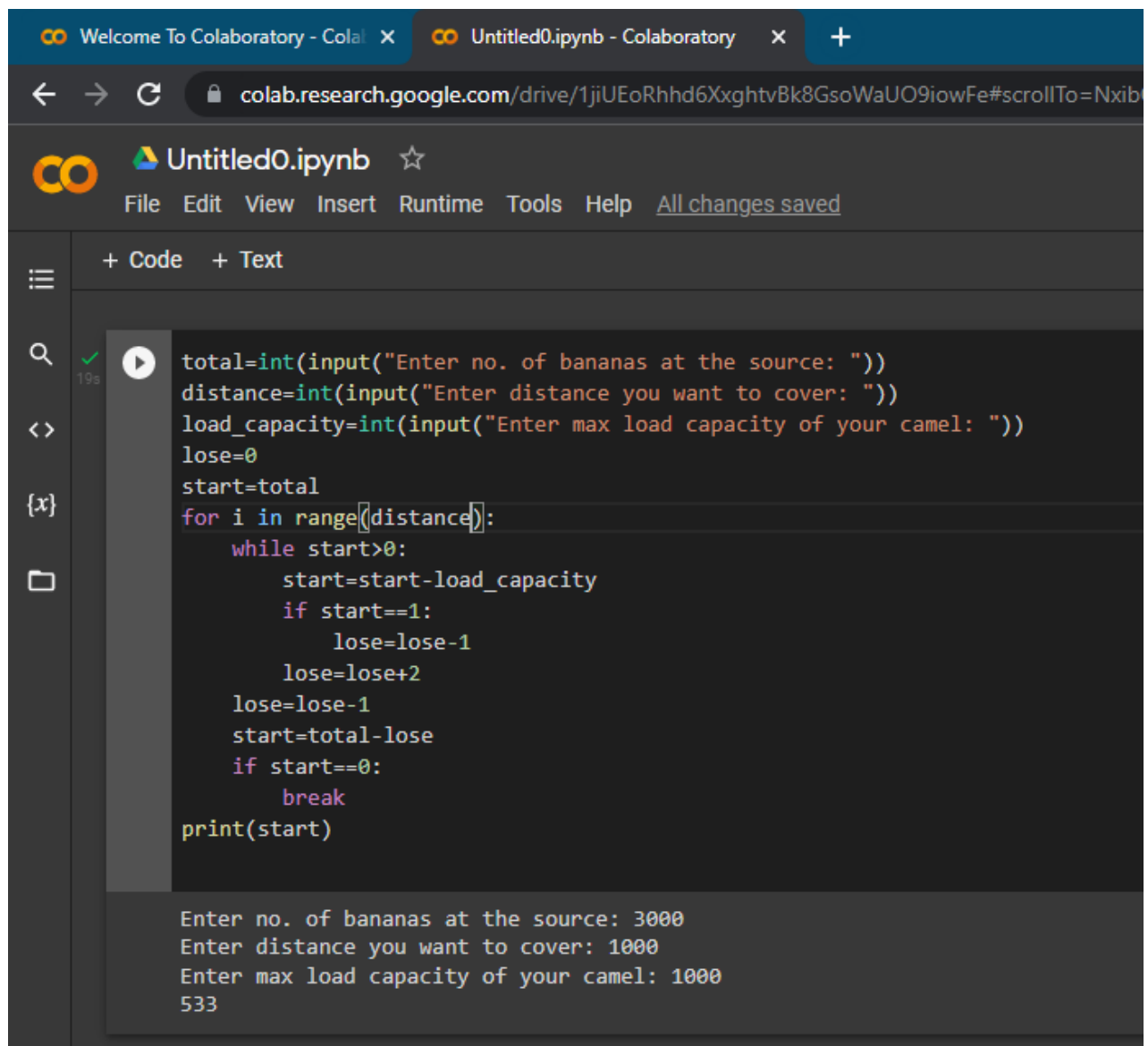
EXP NO: 1

REG NO: RA1911030010084

CODE:

```
total=int(input("Enter no. of bananas at the source: "))
distance=int(input("Enter distance you want to cover: "))
load_capacity=int(input("Enter max load capacity of your camel: "))
lose=0
start=total
for i in range(distance):
    while start>0:
        start=start-load_capacity
        if start==1:
            lose=lose-1
            lose=lose+2
        lose=lose-1
        start=total-lose
    if start==0:
        break
print(start)
```

OUTPUT:



The screenshot shows a Google Colaboratory notebook interface. The browser tabs at the top are "Welcome To Colaboratory - Colab" and "Untitled0.ipynb - Colaboratory". The address bar shows the URL "colab.research.google.com/drive/1jiUEoRhhd6XxghtvBk8GsoWaUO9iowFe#scrollTo=Nxib". The notebook title is "Untitled0.ipynb" with a star icon. The menu bar includes "File", "Edit", "View", "Insert", "Runtime", "Tools", "Help", and "All changes saved". The left sidebar has icons for a menu, search, code execution (19s), expand/collapse, variable explorer, and file explorer. The main area shows a Python code cell with a play button icon and a green checkmark. The code calculates the maximum load capacity of a camel based on the number of bananas, distance, and camel's load capacity. The output shows the user inputting 3000 bananas, 1000 distance, and 1000 load capacity, resulting in a maximum load capacity of 533.

```
total=int(input("Enter no. of bananas at the source: "))
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lose=0
start=total
for i in range(distance):
    while start>0:
        start=start-load_capacity
        if start==1:
            lose=lose-1
            lose=lose+2
        lose=lose-1
        start=total-lose
        if start==0:
            break
print(start)
```

Enter no. of bananas at the source: 3000
Enter distance you want to cover: 1000
Enter max load capacity of your camel: 1000
533