

AI LAB MANUAL

Exp 1: Implementation of Toy Problems

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Problem:	Camel and Banana
Date:	13-01-22

Code: (Python)

```
numofbanana = int(input("Enter the number of bananas: "))
totdistance = int(input("Enter the distance you want to cover: "))
maxload = int(input("Enter max load capacity of your camel: "))
start = numofbanana
lose = 0
for i in range(totdistance):
    if start == 0:
        break
    while start>0:
        start = start-maxload
        if start == 1:
            lose -= 1

        lose += 2

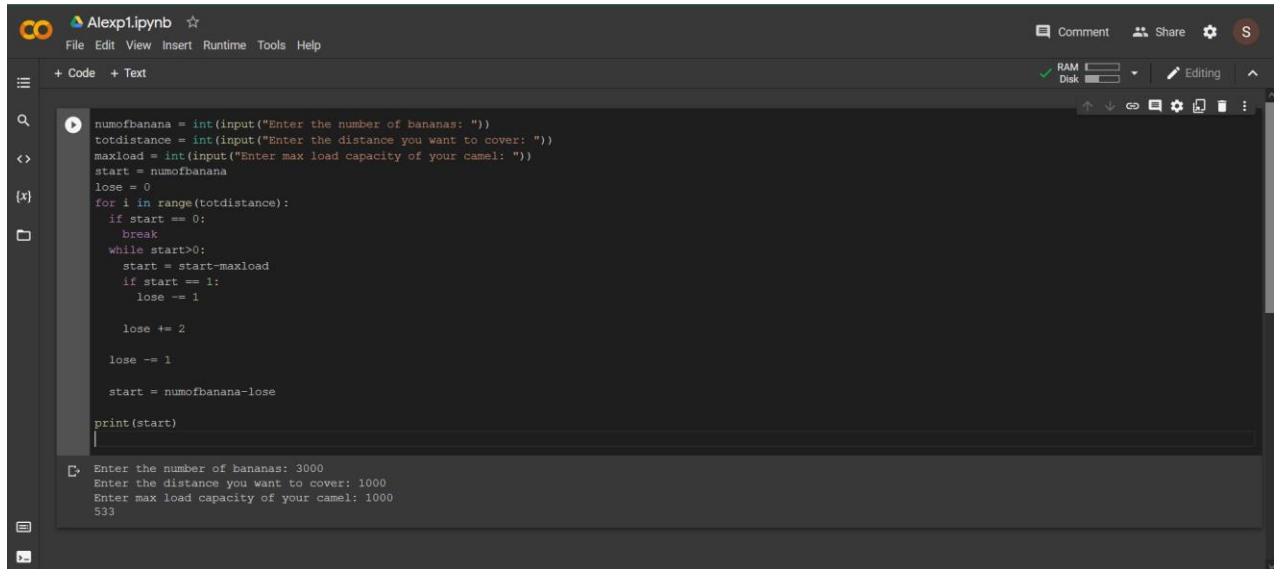
    lose -= 1

start = numofbanana-lose

print(start)
```

Implementation:

Screenshots



The screenshot shows a Jupyter Notebook titled 'Alexp1.ipynb'. The code in the cell is as follows:

```
numofbanana = int(input("Enter the number of bananas: "))
totdistance = int(input("Enter the distance you want to cover: "))
maxload = int(input("Enter max load capacity of your camel: "))
start = numofbanana
lose = 0
for i in range(totdistance):
    if start == 0:
        break
    while start>0:
        start = start-maxload
        if start == 1:
            lose += 1

        lose += 2

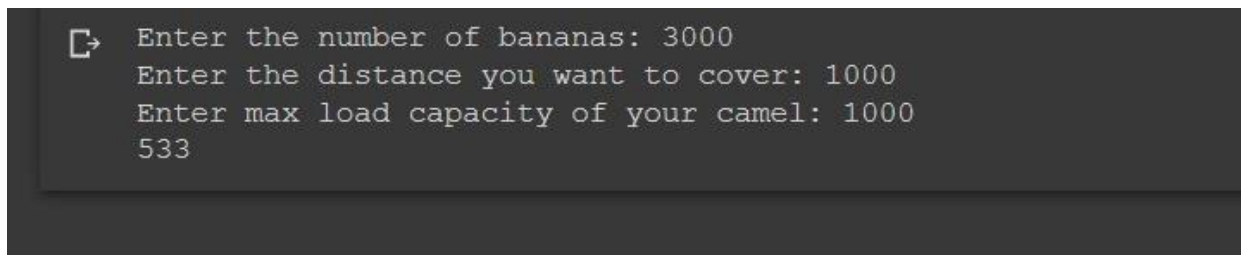
        lose -= 1

    start = numofbanana-lose
print(start)
```

The output of the code is displayed below the cell:

```
Enter the number of bananas: 3000
Enter the distance you want to cover: 1000
Enter max load capacity of your camel: 1000
533
```

Output:



```
Enter the number of bananas: 3000
Enter the distance you want to cover: 1000
Enter max load capacity of your camel: 1000
533
```