

AI LAB EXP-1

IMPLEMENTATION OF TOY PROBLEMS

Camel & Bananas Problem

Date: 06-01-2022

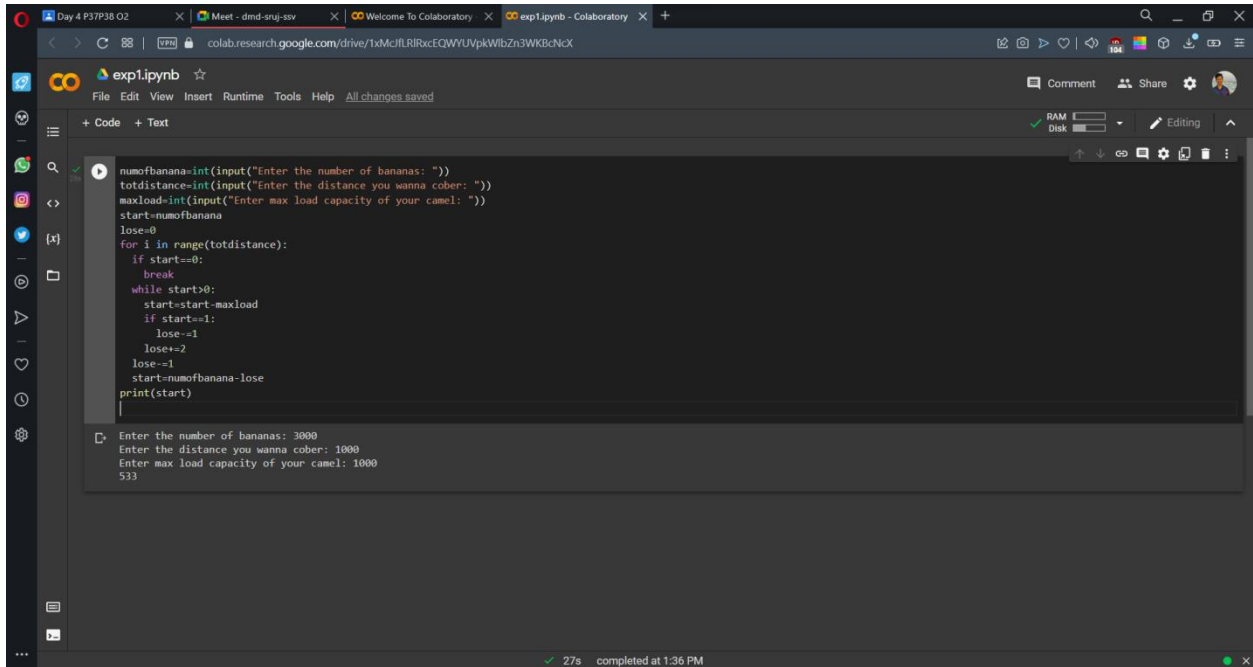
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Reg No: RA1911030010104

CODE:

```
numofbanana=int(input("Enter the number of bananas: "))
totdistance=int(input("Enter the distance you wanna cober: "))
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)
```

OUTPUT SCREENSHOT:



The screenshot shows a Google Colab notebook interface. The browser tabs at the top include 'Day 4 P37P38 O2', 'Meet - dmd-snj-ssv', 'Welcome To Colaboratory', and 'exp1.ipynb - Colaboratory'. The address bar shows the URL 'colab.research.google.com/drive/1xMcJLRIRxcEQWYUUpkWiBzn3WKBCNcX'. The notebook title is 'exp1.ipynb' and it shows 'All changes saved'. The code editor contains the following Python code:

```
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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 cell shows the results of running the code with the following inputs:

```
Enter the number of bananas: 3000
Enter the distance you wanna cober: 1000
Enter max load capacity of your camel: 1000
533
```

The status bar at the bottom indicates '27s completed at 1:36 PM'.