Techment Training 2020

Assignment 1

Algorithm for The Glass House problem:

Input: A two digit number.
Output: A number between 1 to 18.

step1: Start
step2: Read input
step3: lastDigit ← input%10
firstDigit ← input/10
houseNumber ← firstDigit+lastDigit
step4: print “The glass house number”
print houseNumber
step5: Stop.

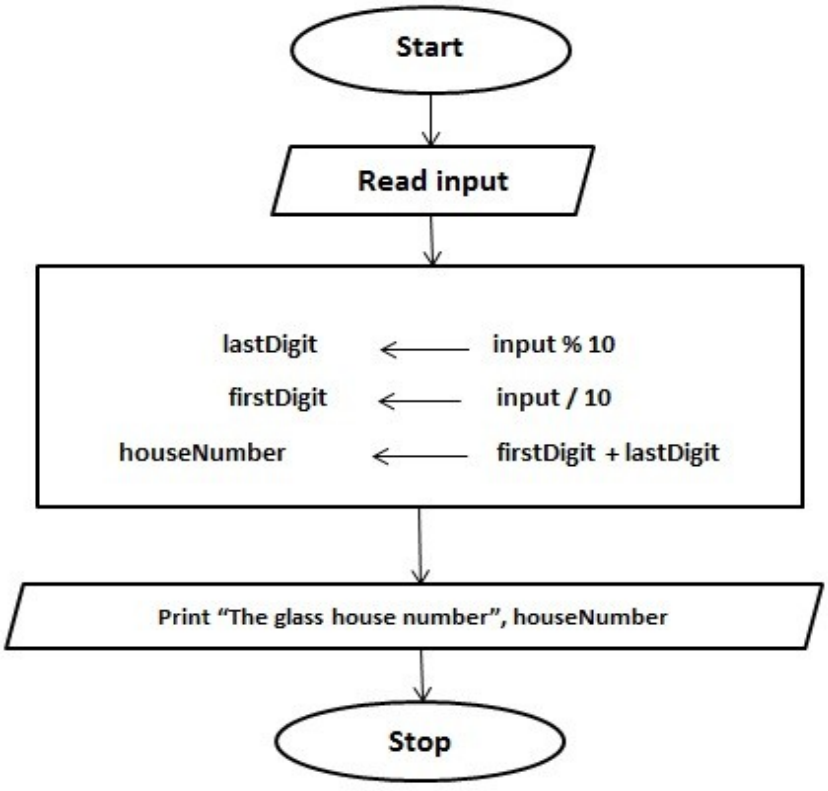
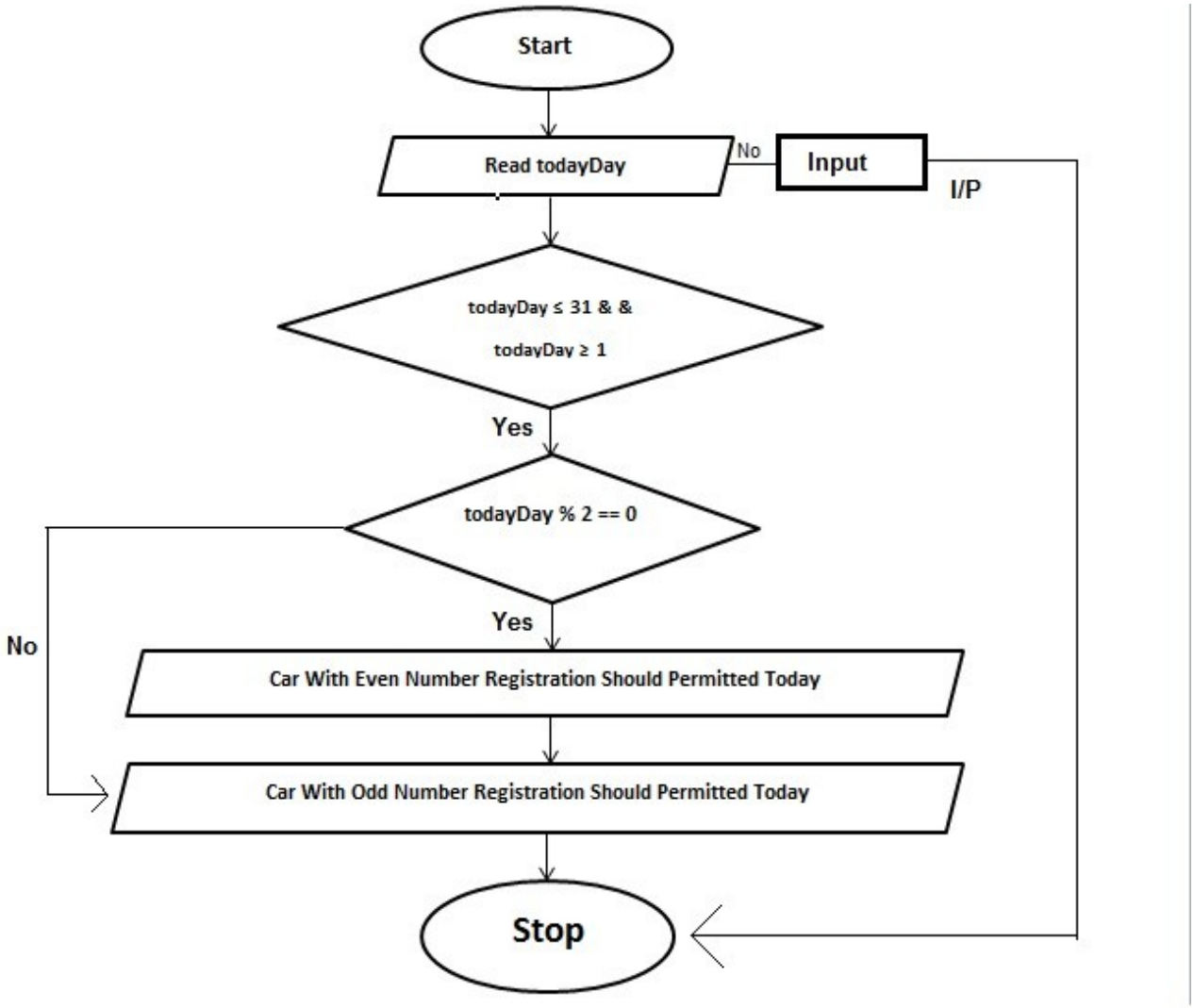


Fig:- Flow Chart

Algorithm for The Traffic Congestion – Even Odd Rule problem:

Input: A day number.
Output: Even or Odd car number permitted.

step1: Start
step2: Read todayDay
step3: If todayDay between 1 to 31 then
if (todayDay%2)==0 then
print “Car With Even Number Registration Should Permitted Today”
else
print “Car With Odd Number Registration Should Permitted Today”
else
goto step 4
step4: print “Invalid Input”
step5: Stop.



Algorithm for Choosing The Best Horse problem:

Input: Weight of Horse.
Output: Chossing the best horse among them.

```
step1: Start
step2: Read  horseWeight[0], horseWeight[1], horseWeight[2]
step3:for i← 0 to 2 do
                for j← i+1 to 2 do
                        if horseWeight[i]==horseWeight[j] then
                                goto step4
                end for loop
        end for loop
step4: If horseWeight[0] > horseWeight[1] and horseWeight[0] > horseWeight[2] then
                print”Best Horse is ”
                print  horseWeight[0]
        else if  horseWeight[1] >  horseWeight[2]
                print”Best Horse is ”
                print  horseWeight[1]
        else
                print”Best Horse is ”
                print  horseWeight[3]
        go to step5
step4: print “Horse weight value is not distinct”
step5: Stop.
```

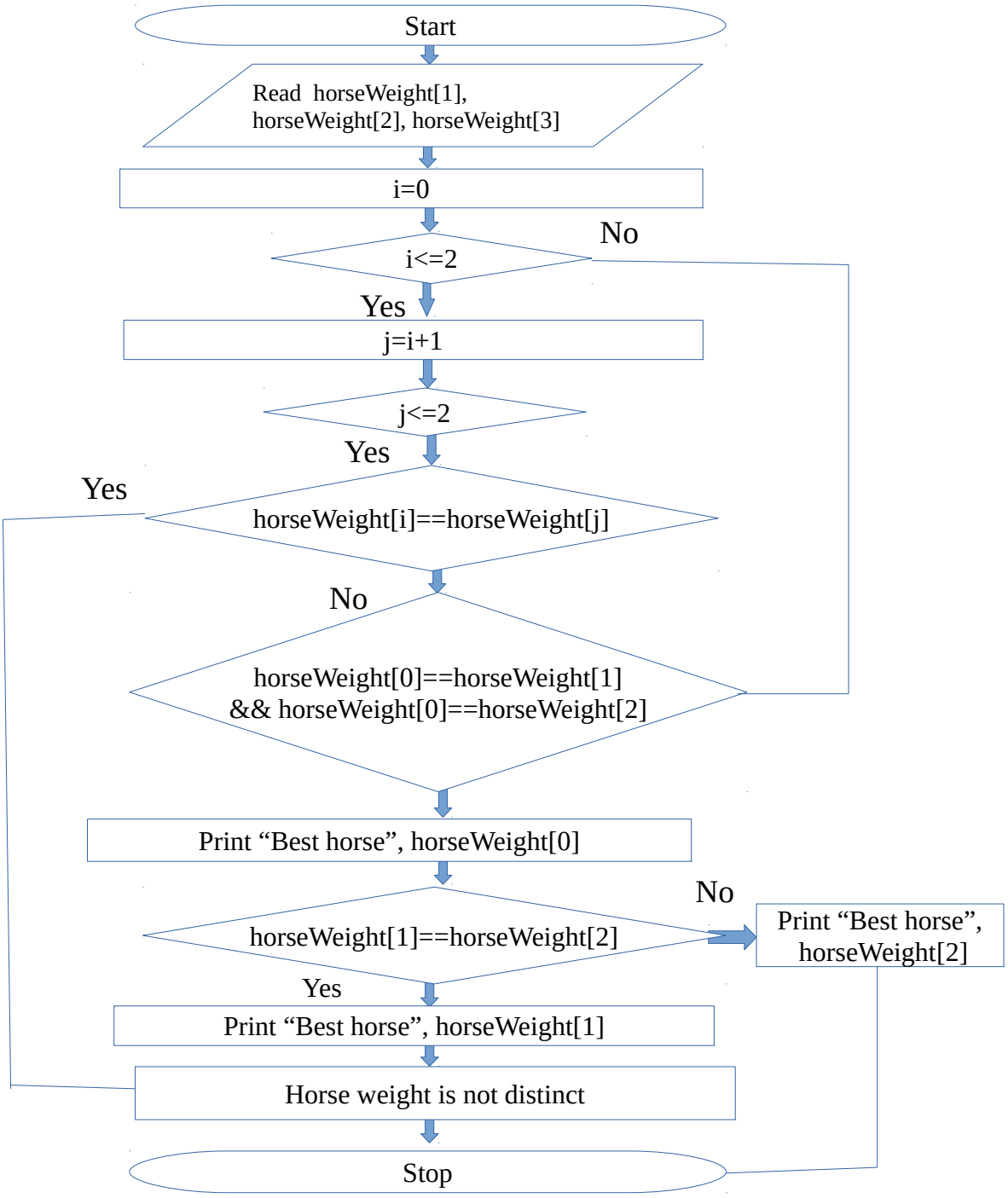


fig:- Flow chart for choosing best horse