

## Code Covention

Code convention is done to be easily understandable by other programmer or the one who have a knowledge of code written in a particular programming language. Code convention is helpful in writing a code in a good way and in such a manner that it is easily understandable and readable. The code convention in java is as given below:-

1. File Organisation:- A file consist of a number of sections and each section should be separated by blank lines and comments if required.
  - Java Source File:- It should be in the following order :
    - Beginning Comments.
    - Package and import statement
    - Class and interface declaration
2. Indentation :- The unit of indentation is four spaces. The description of indentation is given below:-
  - Line Length :- The length of a line while writing any java code must be lesser than 80. So during its documentation one can easily understand it.
  - Wrapping Lines :- Wrapping of line is done when a code is not able to fit in a single line. So wrapping is done as follows:
    - Break after a comma.
    - Break before an operator.
    - Break in such a manner that the next line must be easily understandable.
3. Comments :- Comments must be done to make the code easily relatable and understandable. Java supports two kind of comments:
  - Implementation comments:- In this if a developer is using the code to implement a particular thing then he/she use implementation comments. Its syntax is:-  
`/* .....*/`
  - Documentation comments :- This comment is used to provide document comments consist of Html data or files. Its syntax is:-  
`/** .....*/`
4. Declaration :-
  - Number Per Line :- One declaration per line is recommended. Example:-  
`Int level; //indentation level.`

## **Algorithm**

### **Program1:-**

Step1 : Get the input as a digit from the user

Step2 : Store it in any variable.

Step3 : Declare a variable(Sum) to store the addition of numbers and set it to zero.

Step4 : Repeat step5 and step6 till the digit does not equal zero.

Step5 : Get the rightmost digit of a given number by using modulo operator(%) and divide it by 10 and then add it to \_variable(sum).

Step6 : Divide the number by 10 using operator(/)

Step7 : Print the sum and that will be exit door.

**Program 2:-**

Step1 : Take the input from the user of a particular date.

Step2 : Store it in any variable.

Step3 : Check date is between 1 to 31 or not.if not then goto step4 else goto step goto step5.

Step4 : Print “Invalid Input”

Step5 : If the date % 2 equals to zero.Goto step 6 else goto step7.

Step6 : Print “Cars with Even registration number are permitted today”

Step7 : Print “Cars with Odd registration number are permitted today”

### **Program 3:-**

Step1 : Take the input for the weight of three horses.

Step2 : Store it in three different variables.

Step3 : If horse1 > horse2 goto step4 else goto Step7

Step4 : If horse1 > horse3 goto step5 else goto step6

Step5 : Print "Horse1 is the best horse"

Step6 : Print "Horse3 is the best horse"

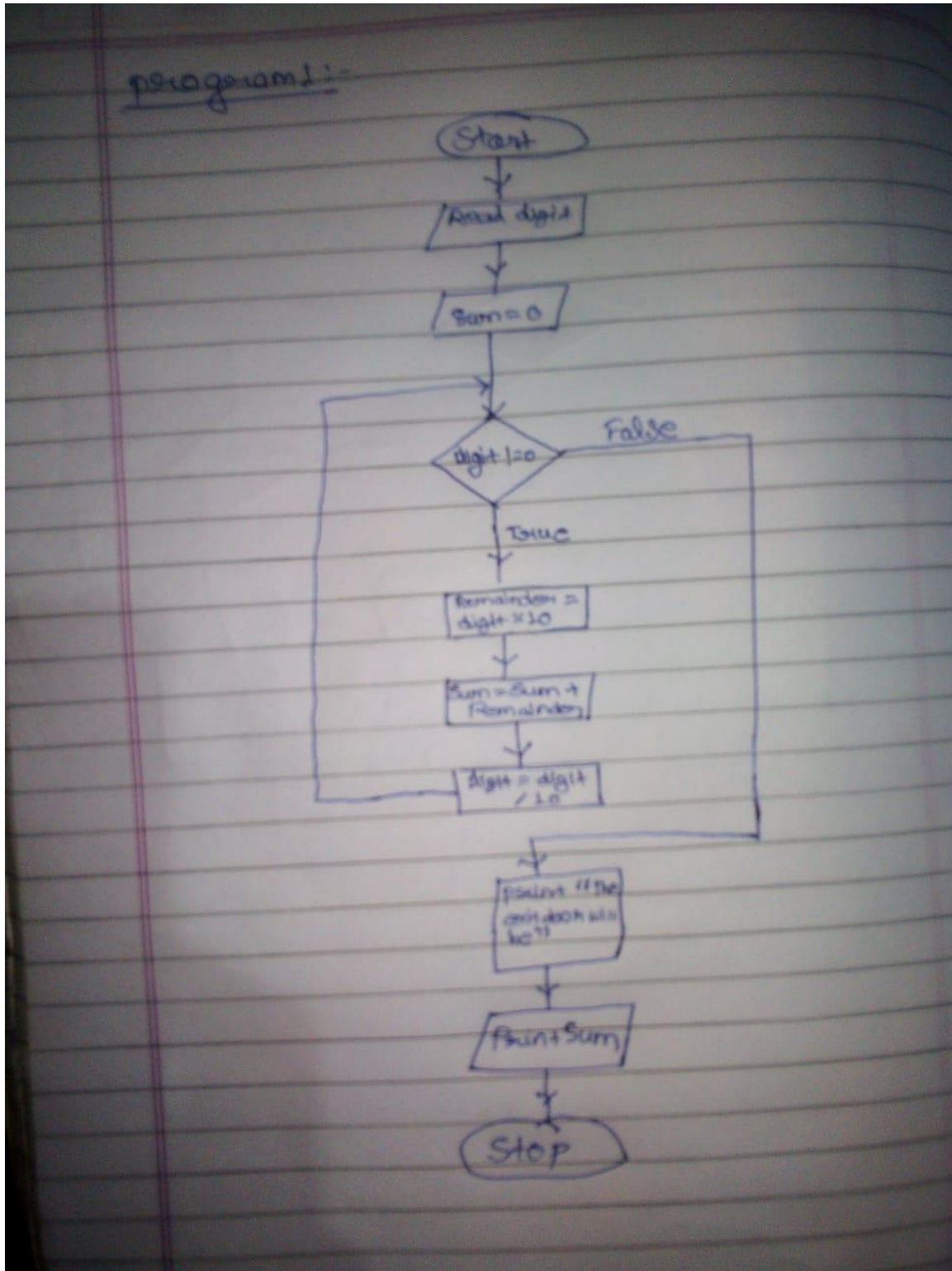
Step7 : If horse2 > horse3 goto step8 else goto step9.

Step8 : Print "Horse2 is the best horse"

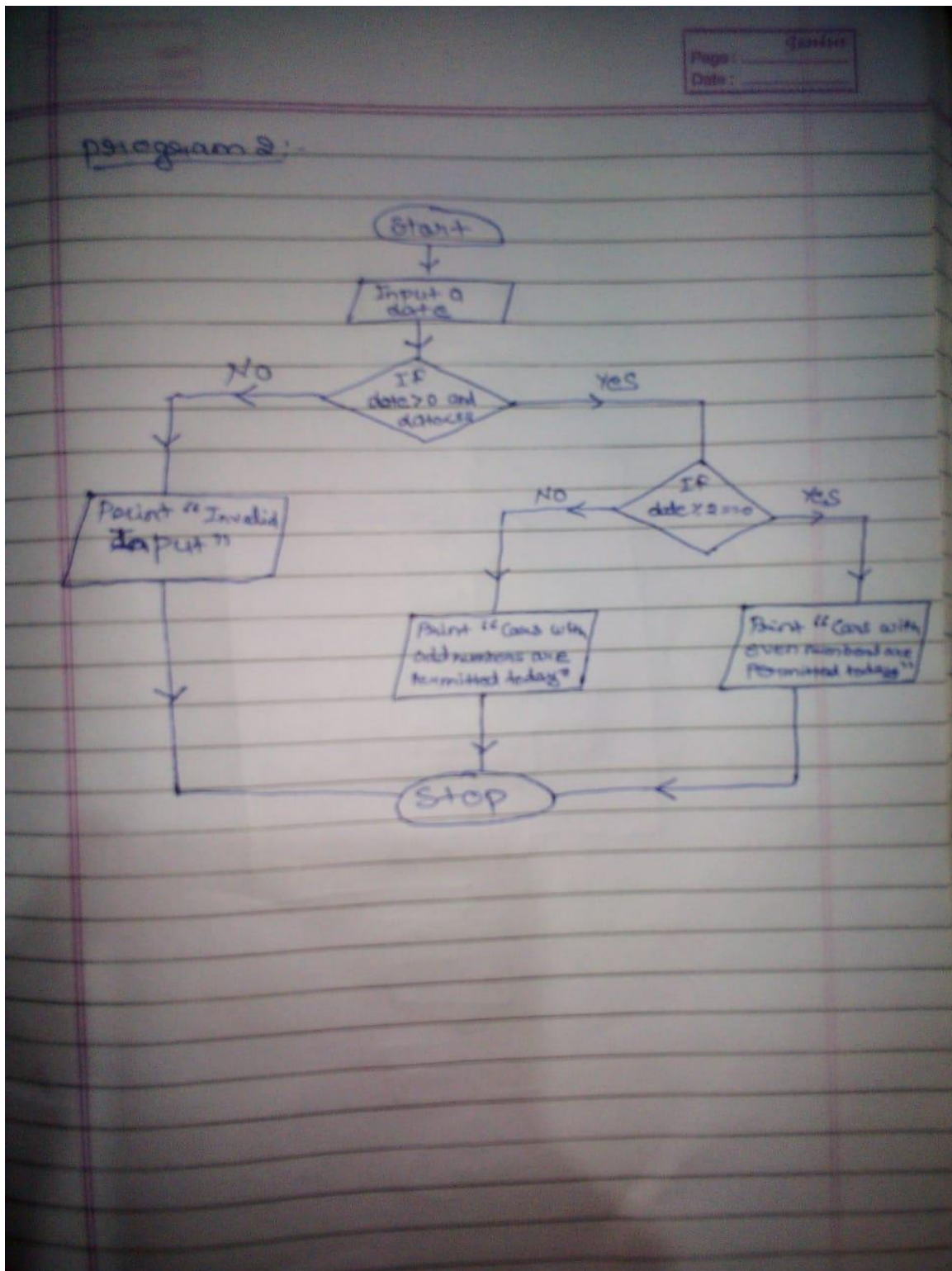
Step9 : Print "Horse3 is the best horse"

## Flow Chart

### Program 1:-



## Program 2:-



### Program 3:-

