1. Write a program to check whether a person is eligible for voting or not ?

def vote\_e(age:Int) :Unit = {

val status = if (age >= 18) "Can vote"

else "Cannot vote"

print(status)

}

vote\_e(14)

1. Write a program to check whether a number entered by user is even or odd.

import io.StdIn.\_

val i = readInt()

print(if (i%2 == 0) "This is an even number."

else "This is an odd number."

)

1. Write a program to check whether a number is divisible by 7 or not.

import io.StdIn.\_

def div7rule(i:Int): String ={

if (i== 0 || i ==7)"Divisible by 7"

else if (i<10) "Not divisible by 7"

else div7rule(((i/10).floor.toInt - 2\*(i%10)).abs)

}

print(div7rule(61))

1. Write a program to display "Hello" if a number entered by user is a multiple of five , otherwise print "Bye".

import io.StdIn.\_

val num = readInt()

val s = if(num%5 ==0)"Hello"

else "Bye"

println(s)

5. Write a program to calculate the electricity bill (accept number of unit from user) according to the following criteria :  
             Unit                                                     Price    
            First 100 units                                               no charge  
            Next 100 units                                              Rs 5 per unit  
            After 200 units                                             Rs 10 per unit  
(For example if input unit is 350 than total bill amount is Rs2000)

import io.StdIn.\_

def bill: Int = {

var units = readInt()

var total\_bill = 0

if (units <=100) total\_bill = 0

else if (units>100 && units<=200) total\_bill = (units-100)\* 5

else total\_bill = 100 \* 0 + 100 \* 5 + (units-200) \*10

total\_bill

}

print(bill)

6. Write a program to display the last digit of a number.  
(hint : any number % 10 will return the last digit)

def l\_check(num:Int): Unit ={

var l\_digit = num%10

print(l\_digit)

}

l\_check(1009)

7.Write a program to check whether the last digit of a number( entered by user ) is   
divisible by 3 or not.

import io.StdIn.\_

val num = readInt()

print(if( (num%10)%3 == 0 && num%10 !=0)"Last digit divisible by 3"

else "Last digit not divisible by 3")

8. Write a program to accept percentage from the user and display the grade according to the following criteria:

         Marks                                    Grade  
         > 90                                         A  
         > 80 and <= 90                        B  
         >= 60 and <= 80                     C  
         below 60                                   D

def grades(marks:Int):Char ={

if (marks<60) 'D'

else if (marks>= 60 && marks<=80) 'C'

else if (marks>80 && marks<=90) 'B'

else 'A'

}

print(grades(91))

9. Write a program to accept the cost price of a bike and display the road tax to be paid according to the following criteria :  
  
        Cost price (in Rs)                                       Tax  
        > 100000                                                  15 %  
        > 50000 and <= 100000                           10%  
        <= 50000                                                  5%

def tax(cost\_price :Int):Double = {

var tax: Double = 0

if (cost\_price<= 50000) tax = cost\_price \* 0.05

else if (cost\_price> 50000 && cost\_price<=100000) tax = cost\_price \* 0.10

else if (cost\_price>100000 ) tax = cost\_price \* 0.15

tax

}

print(tax(52000))

10. Write a program to check whether a year is leap year or not.

def leap\_check(year:Int): String ={

if (year%400 == 0 || (year%100!=0 && year%4 ==0)) "This is a leap year"

else "This is not a leap year"

}

print(leap\_check(1900))