Algorithms

Qno.1

Start
Input num
Set square to num^½
If n<=1
    print(“Not Prime “)
Else
    Loop (i = 2 ; i<=square; i= i +1)
        result = num % i
        If (result == 0)
            print(“Not Prime.”)
        Else
            print(“Prime Number”)
        Break
End

Qno.2

Start
Input day_num(1-365)
Day = day_num % 7
If (Day == 0)
    print(“Day is Sunday”)
Else If (Day == 1)
    print(“Day is Monday”)
Else If (Day == 2)
    print(“Day is Tuesday”)
Else If (Day == 3)
    print(“Day is Wednesday”)
Else If (Day == 4)
    print(“Day is Thursday”)
Else If (Day == 5)
    print(“Day is Friday”)
Else
    print(“Day is Saturday”)
End

Qno.3

Start
Input num_1, num_2
Loop (num_2 != 0){
    Remainder = num_1 % num_2
    num_1 = num_2

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        Num_2 = remainder}
Print num_1
End
```

Pseudo Code

Qno.1

```
Start
Set smallest to 0
Input  num1, num2, num3
If num1< num2 && num1<num3
        Print (“num1 is smallest”)
Else If num2< num1 && num2<num3
        Print (“num2 is smallest”)
Else
        Print (“num3 is Smallest”)
End
```

Qno.2

```
Start
Input num1, num2
Set complement = -num2
Subtract = num1 + complement
Print Subtract
End
```

Qno.3

```
Start
Input num1 , num2 , operator
If operator == *
        Set Multiply = num1 * num2
        Print Multiply
Else if operator == /
        Set division = num1 / num2
        Print division
Else
        print(“Enter valid operator”)
End
```