# CONDITIONAL EXECUTION AND ITERATIONS

## **IF STATEMENT:**

#### **NESTED IF:**

## LOOPS:

#### Range method

## for loop with string

## for loop with list

#### for else statement

#### while statement

#### nested for statement

## Break continue and pass statement:

#### **Break statement**

#### **Contine statement**

#### **Pass statement**

## WAP to find the max of three number by user input

```
In [ ]:
          1
          2 a = int(input("Enter a:"))
          3 b = int(input("Enter b:"))
          4 c = int(input("Enter c:"))
          5
            if a>b:
          6
                 if a>c :
          7
                     print("a is max")
          8
                 else :
                     print("c is max")
          9
         10 elif b>c:
         11
                 print("b is max")
         12 else:
                 print("c is max")
         13
```

## WAP to print all the number from 0 to 6 except 3 and 6

## WAP to ask user for a number and print its multiplication table

## WAP to take use input of 10 numbers and print avg of them

```
In []: 1
2     sum=0
3     for i in range(1,11):
4         a= int(input("Enter number"))
5         sum = sum+a
6     print(sum/10)
```

## WAP to check year is leap year or not

## WAP to display fibonacci series

```
In [ ]:
             #0 1 1 2 3 5 8 13
          2
             a = 0
          3 | b = 1
            n=10
          5
             print(a)
             print(b)
          7
             while n-3>=0:
          8
                 c = a+b
          9
                  print(f"{c}")
         10
                  a=b
         11
                 b=c
         12
                 n = n-1
```

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```
In [ ]: 1
```

```
#find smallest number divisible by 1 to 10
In [ ]:
          2
             num=1
          3
             found = False
             while not found:
          4
          5
                 found=True
          6
                 for i in range(1,11):
          7
                     if num%i !=0:
          8
                         found=False
          9
                         break
                     if not found:
         10
                         num +=1
         11
             print(num)
```

# write integer solution for all possible of an equation $x^2 - 2y^2 = 1$ where x and y are between 1 to 100

## 26 legs and 10 heads how many ship and hen

WAP to ask user for an hour between 1 to 10 ask them to enter AM or PM and also ask how many Hours in future they want to go print hour in future printing the AM and PM as well

```
In [39]:
             hour = int(input("Enter hour"))
             amm = input("Enter am or pm ")
             fwd = int(input("Enter hour to add"))
           3
           5
            f = hour+fwd
           6 if f>=12 and amm=="am":
           7
                 f=f-12
           8
                 amm=pm
           9 elif f>=12 and amm=="pm":
          10
                      amm=am
                     f=f-12
          11
          12 print(f)
          13 print(amm)
         Enter hour8
```

Enter nours
Enter am or pm am
Enter hour to add5
1
pm

In [ ]: 1