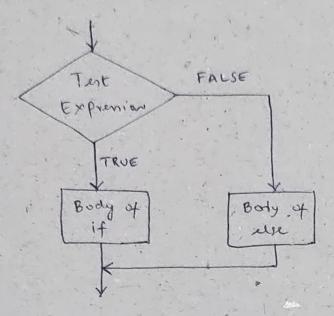
Module 6

Control Flow Statements

control flow refus to the order in which statements are executed in the code.



age = int (input ())

if age > 18:

print ("You're eligible to drive Car")

print ("Drive slowly")

else:
point (" Wait till you turn, 18")

Wait till you turn 18

18

Wait till you turn 18

19

You're eligible to drive care
Drive slowly.

```
Nexted if else
age = int (input ())
if age > 18:
   if age > = 65:
        print ("Take vest")
        Print ("You are eligible to drive cor")
        Print ("Drive slowly")
    print (" wait till you turn 18")
wait till you turn 18
You are eligible to trive can
Drive slowly
70.
 Take Yest
if, elif and else
     The elif condition is used to include multiple conditional
expressions after the if condition.
                                     nam = int (input())
 num = int (input a)
                                    if num > 0:
 if num 7 0:
                                        print ("positive")
     print (" Positive")
 if ) num == 0 ;
                                    (elif) num == 0;
     print ("zero")
                                         print ("zero")
 else print ("Negotive"):
                                         Print ("Negative")
  12
                                      12
                                      Positive
  Positive
  Negative
                                      Zero
                                      -3
                                      Negative
```

```
1) Find maximum in a list
  marks = [ 90, 80, 100, 50, 80, 95]
                                Alia :
  highest = marks [0]
                                max (marks)
  for i in marks :
     if i > highert:
                               " min (monts)
      · highert = 1
  print (highest)
   100
3 Grading System.
                                       7 90 -100
      A - Marks equal and above 90.
            Marks equal to 80 and less than 90 -> 80 - 89
      C - Marks equal to 70 and less thom 80 > 70-79
            Marks equal to 60 and less than 70 > 60-69
            Marks by tham 60 100 0 50 -> 0-59
   mark = int (input (1)
   if mark >= 90 and mark 4=100:
      print (" A. grade")
   elif morte 7=80 and morte 2 90
                                        95
                                         A grade
      Print ("B grade")
   elif mark 7=70 and mark 480
                                         82
                                         B grade
     print (" ( grade")
                                         75
   elif mark >= 60 and mark < 70:
                                         c grade
      Print ("D grade")
                                         68
   self mark < 60 !
                                         D grady
      Print ("E grade")
                                          45.
                                         E grade
      print ("Invalid").
                                         120
```

Involid

Challenge .

3 Fi 22 Bu22

Problem description:

Crime a positive integer A return an array of strings with all the integers from I to N. But for multiples of 3, the array should have "Fizz" instead of the number. And for the multiples of 5, the array should have "Buzz" instead of the number. Also for the numbers which are multiples of both 2 and 5, the array should have "Fizz Buzz" instead of the number.

Problem constraints:

1 & A & 500000

Input Formet:

The first argument has the intiger A

output Format:

Return am carray of string

Clan Solution:

def fi22Bu22 (suf, A):

result = []

for i in range (1, A+1):

if i 1/3 == 0 and i 7.5 == 0

result append ("Fi22Buzz")

elif 11.3 ==0;

yearlt. append ("Fizz")

elif 1º1:50 = = 0 !

result append ("Buzz")

else

result, append (str (1))

yetum result

nolution = Solution ()

A = 16

print (notation, fizz, Buzz (A))

['1', 2', Fizz', 4', Buzz', Fizz', 7', 8', Fizz', Buzz',

"11', Fizz', '13', 14', Fizz Buzz', 16']

D Loop Year Problem description: Given an integer A representing a year. Return 1 if it is a top year, else return 0. A year is a lop year if - the year is multiple of 400 (or) - the year is multiple of 4 and not multiple of 100 Boblin contraints: $1 \leq A \leq 10$ Input Format. First and only argument is an integer A output Format Return 1 if it is a leap year else return O class Solution: det solve (set, A): if (A 1.100, == 0) or (A1.4 == 0 and A1.100 1=0): retion 1 · yetum o golution = Solution () print (nowhow. solve (2020)) print (solution. solve (1999))

1 In what Boolean value of statement in the if condition does the if statement works ? Tym

- 6 Can we write an else statement without an if statement ?
- 1 How many elif statements can we use after the if statement More than 2