Introduction to Programming: Python

By Odin Outsourcing

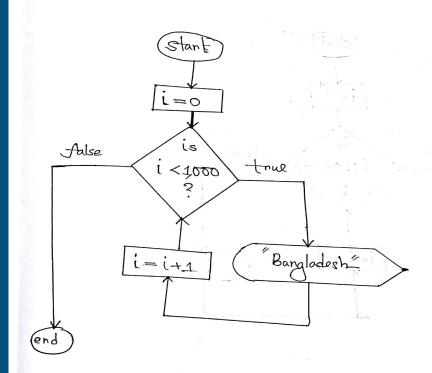
Motivational video

- TEDx: https://www.youtube.com/watch?v=xfBWk4nw440
- 2. Intermediate Python: https://www.youtube.com/watch?v=HGOBQPFzWKo
- 3. Data Analysis: https://www.youtube.com/watch?v=r-uOLxNrNk8&t=5183s

Iteration Learning Resources

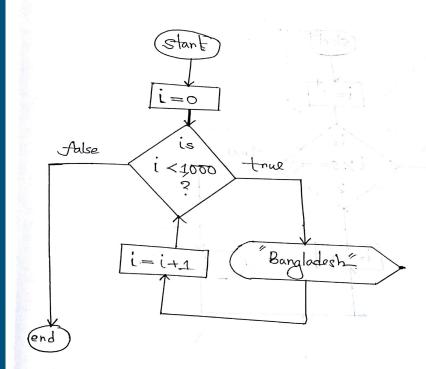
- 1. https://www.learnpython.org/en/Loops
- 2. https://www.geeksforgeeks.org/loops-in-python

Draw a flow chart that print Bangladesh = 1000



```
i=0
while i<10:
    print('Bangladesh')
    i=i+1</pre>
```

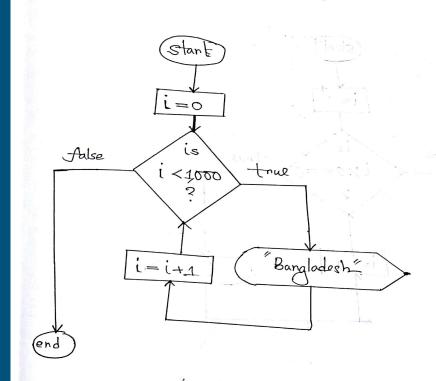
Draw a Now chart - that print Bangladesh = 1000



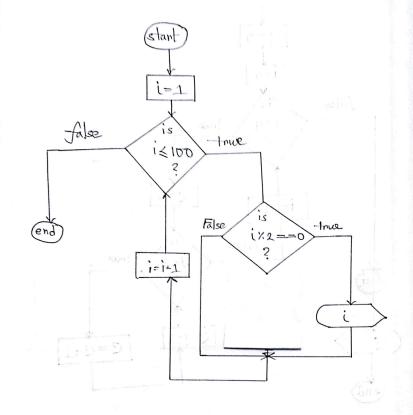
```
i=0
while i<10:
    print('Bangladesh')
    i=i+1</pre>
```

```
for i in range(0, 10):
    print('Bangladesh')
```

Draw a Now chart - that print Bangladesh = 1000



Draw a flow chant that will print all even number between 1 to 100.

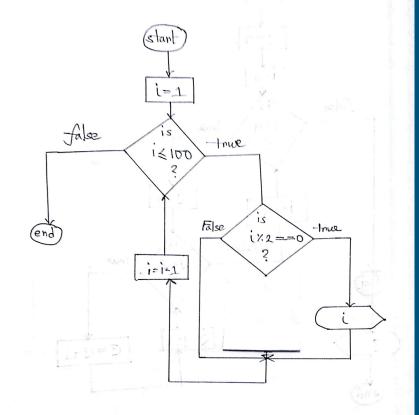


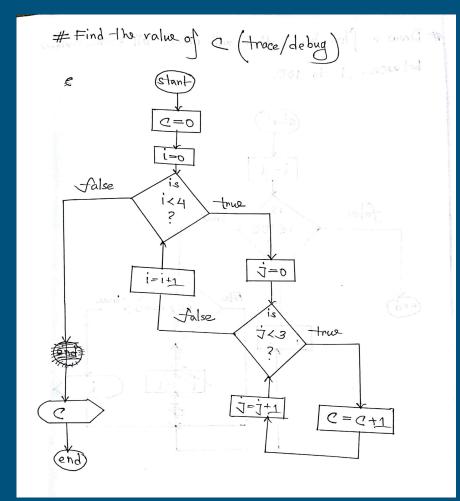
```
i = 0
while i<=100:
    if i % 2 == 0:
        print(i)
    else:
        None

i = i+1</pre>
```

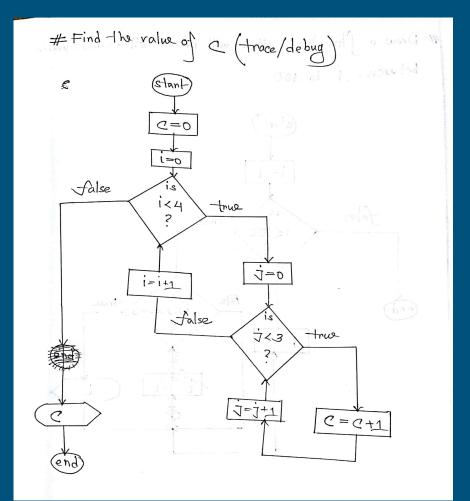
```
i = 1
while i<=100:
    if i%2==0:
        print(i)
    i = i+1</pre>
```

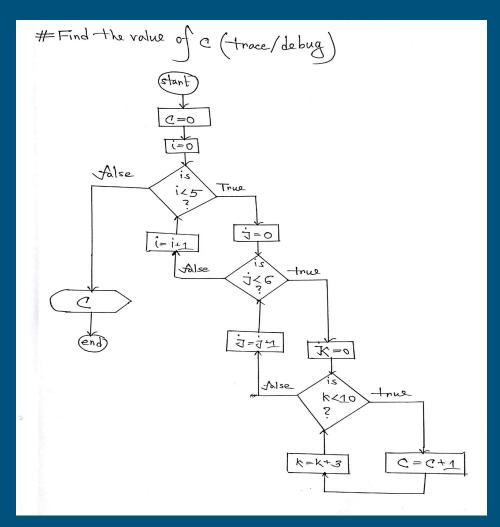
Draw a Stow chant that will print all even number between 1 to 100.



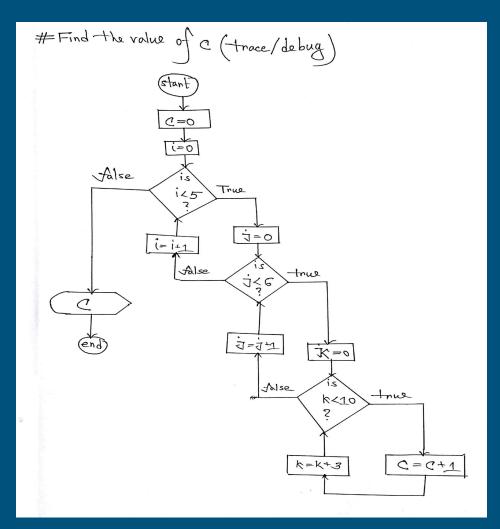


```
C=0
i=0
while i<4:
    j=0
    while j<3:
        C=C+1
           = j+1
print(C)
```





```
C=0
i=0
while i<5:
    j=0
    while j<6:
        k=0
        while k<10:
             C=C+1
             k = k+1
         j=j+1
    i=i+1
print(C)
```



Problem Solving

- 1. Input a number, then reverse it. (1234 to 4321; 596254 to 452695).
- Check a number whether it is palindrome or not.
- 3. Count the digit of a number.
- 4. Count the unique-digit of a number.
- 5. Take two inputs, base(b) and power(p) determine the value.
- 6. Fibonacci Series (0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89 ... upto N)
- 7. Print series: 3, 6, 9, 12, 15, 18, 21, 24, 27 upto N.
- 8. Print 3n+1 series (if number is even then n=n/2, otherwise n=3n+1).
- 9. Factorial (3! = 6, 4! = 24, 5! = 120, 6! = 720, 7! = 5040)

Contract your instructor!

Find Me: http://rafsanjani.pythonanywhere.com/contact

Course Website: https://mrzresearcharena.github.io/Big-Data-using-Python

Thank you!