Programming Fundamentals - II using Python 2

Lecture

Problem Solving Practice

- break & continue
- branching
- looping
- coding problems



Loops

Do something again & again!



break

continue

pass

return

Switch Match Case

in Python 3.10 or higher

```
class HelloWorld {
       public static void main( String args[] ) {
 2
 3
 4
         int weather = 2;
 5
 6
          switch (weather)
              //comparing value of variable against each case
 8
 9
            case 0:
10
              System.out.println("It is Sunny today!");
11
              break;
12
            case 1:
13
              System.out.println("It is Raining today!");
14
              break;
15
            case 2:
              System.out.println("It is Cloudy today!");
16
17
              break;
18
            //optional
19
            default:
20
              System.out.println("Invalid Input!");
21
22
23
```

https://www.pythonpool.com/match-case-python/

No Do While Loop



Code Demo!

Number Sum

Find the sum of even numbers from 1 to N using for loop.

Example

N = 4

Output

Triangle Pattern

Print the given Pattern.

Example

N = 4

Output

*

**

Half Diamond

Print the pattern for given N.

Example

N = 3

Output

*

Largest Number

Given N numbers, find the largest number.

Sample Input

N = 7

10, 20, 30, 400, 50, 20, 70

Sample Output

Print all Primes

Given a and b, print all primes in the range [a,b]

Input

1 10

Output

2,3,5,7

- Count Digits

Given a integer, count the digits

Input

215

Output



Time To Try!





Reverse a Number

Given a integer, reverse the number.

Input

215

Output

Reverse a Number

Given a integer, reverse the number.

Input

215

Output