Programming Fundamentals - II using Java🚀

Code Repository
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bit.ly/javascaler

Lecture

Problem Solving Practice

- break & continue
- branching
- looping
- coding problems

Loops

Do something again & again!

break;

continue;

Switch Case

```java
class HelloWorld {
    public static void main( String args[] ) {

      int weather = 2;
      //passing variable to the switch
      switch (weather)
      {
          //comparing value of variable against each case
        case 0:
          System.out.println("It is Sunny today!");
          break;
        case 1:
          System.out.println("It is Raining today!");
          break;
        case 2:
          System.out.println("It is Cloudy today!");
          break;
        //optional
        default:
          System.out.println("Invalid Input!");
    }
    }
}
```

```
1 //Init
2
3 while(..condition is true ..){
4
5     //execute some stuff
6
7     //update
8 }
```

While Loop

```
1 int calories_burnt = 0;
2
3 while(calories_burnt <100 ){
4
5     cout<<"Run 1 step";
6
7     calories_burnt = calories_burnt + 1;
8 }
```

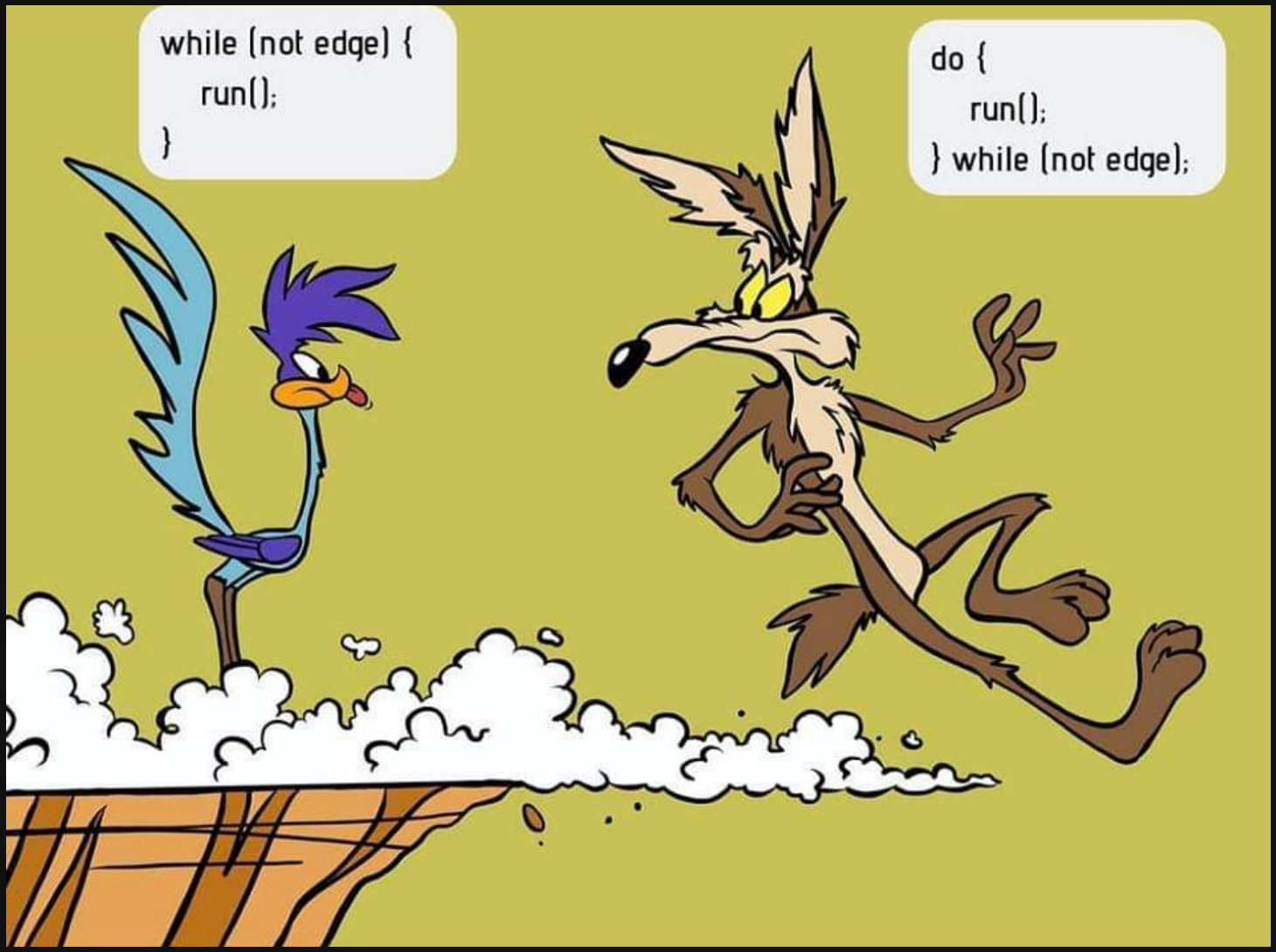
While Loop

```
1  int calories_burnt = 0;
2
3  while(calories_burnt<100 ){
4
5      cout<<"Take a step";
6
7      calories_burnt = calories_burnt + 1;
8  }
9
10 //out of the loop
11 cout<<"Workout Complete";
```

For Loop

```
1
2 for(init;stopping_condition;update_statement){
3     //execute some stuff
4 }
```

Do While Loop



Code Demo!

Number Sum

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

Example

N = 4

Output

10

Largest Number

Given N numbers, find the largest number.

Sample Input

N = 7

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

Sample Output

400

GCD

Given two numbers, find their GCD / HCF

Input

15, 20

Output

5

Fibonacci Number

Print the 'N' fibonacci number.

Input

5

Output

5

Count Digits

Given a integer, count the digits

Input

215

Output

3

Time To Try!

 **8 Mins**

Reverse a Number

Given a integer, reverse the number.

Input

215

Output

512