# Assignment 1

Write a program that will capture your name and year of graduation into variables, and displays their values on the screen.Make sure that you capture the input from keyboard and use two variables. The variable that holds your name is the best datatype for such a variable, and that the variable that holds the year is the best datatype for that variable.

Also make sure that your variable names are good: the name of a variable should always relate to its contents.

**Output:**

Input your name: <some input>

Input your year of graduation: <some input>

My name is <your input>and I'll graduate in <your input>.

e.g.

My name is Prafful Daga and I'll graduate in 2020.

**package** assesment1;

**import** java.util.Scanner;

**public** **class** Program1 {

**public** **static** **void** main(String[] args) {

/\*\* Input your name: <some input>

Input your year of graduation: <some input>

My name is <your input>and I'll graduate in <your input>.\*\*/

**int** year=0;

String name;

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("Enter a string");

name=sc.nextLine();

System.***out***.println("Enter a number: ");

year=sc.nextInt();

System.***out***.println("My name is "+name+" and I'll graduate in"+year.++ );

}

}

# Assignment 2

Modify the above assignment to add some input validations.

1. Input your name: It must not allow numbers. Special characters are allowed.
2. Input your year of graduation: It must allow integers only. Floating point numbers and alphabets are not allowed.
3. If user makes invalid input, then program must not exit. It must prompt for the same input again; until user makes valid input.

package com.cts;

import java.util.Scanner;

public class NameAndGraduationValidation {

public static void main(String args[]) {

String name;

int graduationYear=0;

Scanner scan=new Scanner(System.in);

System.out.println("Enter student name");

while(!scan.hasNext("[A-Za-z.!@#$%^&\*]+"))

{

System.out.println("Please enter a valid name");

scan.next();

}

name=scan.next();

int c = 0;

do {

System.out.println("Enter your year of graduation:");

try

{

graduationYear =Integer.parseInt(scan.next());

c=0;

}

catch (NumberFormatException e)

{

System.out.println("Please enter a valid year");

c++;

}

}while(c!=0);

System.out.println("My name is "+name+" and I will graduate in "+graduationYear+".");

}

}

# Assignment 3

Write a code to implement quiz.

1. It must ask user if he/she wants to play the quiz.
2. It should ask the user three multiple-choice or true/false questions. You should create any 3 random questions.
3. It must keep track of correct answers, and print "score" at the end in terminal

**Output:**

Are you ready for a quiz? Y/N

Okay, here it comes!

Q1) What is the capital of India?

1) Delhi

2) Mumbai

3) Chennai

>1

That's right!

Q2) Can you store the value "dog" in a variable of type int?

1) yes

2) no

> 1

Sorry, "dog" is a string. ints can only store numbers.

Q3) What is the result of 9+9/3?

1) 5

2) 12

3) 15/3

> 2

That's correct!

Your score is 2 out of 3.

Thanks for playing!

import java.util.\*;

class Quiz{

public static void main(String ar[]){

Scanner s = new Scanner(System.in);

char status;

int option,correct1=1,correct2=2;

System.out.println("Are you ready for a quiz? Y/N");

status=s.nextLine().charAt(0);

if(status=='y'||status=='Y'){

System.out.println("Okay, Here it comes!");

System.out.println("Q1) What is the capital of India? \n 1) Delhi\n 2)Mumbai\n 3)Chennai");

option=s.nextInt();

if(option==correct1){

System.out.println("That's Right!");

}else{

System.out.println("Sorry!, Capital of India is : Delhi");

}

System.out.println("Q2) Can you store the value dog in a variable of type int? \n 1) yes\n 2)no");

option=s.nextInt();

if(option==correct2){

System.out.println("That's Right!");

}else{

System.out.println("Sorry!, dog is a string, ints can only store numbers");

}

}

else

{

System.out.println("Hoping for next time");

}

}

}