CSE 1001: Introduction to Computer Programming

Programming Assignment-1

(Elements of Programming)

Question-1:

Write a java program to display following messages.

> Hello "ITERIAN"
> Welcome to Siksha 'O' Anusandhan Family.
> Welcome to "Introduction to Computer Laboratory"
> Java is fun for All !!

Question-2:

Write a complete Java program that shows the pattern similar to the following.

```
* * * * * *          * * * * * *
          *          *          *
* * * * * *          * * * * * *
```

Question-3:

Write a java program to print the following pattern using Hash (#).

```
# # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
# #                                                                 # #
# #                                                                 # #
# #                                                                 # #
# #                                                                 # #
# #                                                                 # #
# # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

Question-4:

Write a java program that will display your First, Middle and Last name in different lines without using the method println( ).

Question-5:

Write a java program to greet someone. Your program stores person name and greeting message into two variables, and displays their values on the screen.

E.g. `Hey Rishi, Good Morning!`

Question-6:

Write a java program to store your Bank account no, name and balance in three different variables and display their value on the screen as given:

`"My name is Amit Kumar bearing account number 123456 having balance 7654.98"`

Question-7:

Write a java program to exchange the values of two variables of integer type X and Y using third temporary variable Z

Question-8:

Write a java program to exchange the values of two variables of integer type X and Y without using third temporary variable.

Question-9:

What do each of the following print?

```
a) System.out.println(5);
b) System.out.println((float)25/6);
c) System.out.println(5+'6');
d) System.out.println(5+7+'9');
e) System.out.println("92"+7+5);
f) System.out.println(2+"9");
```

Question-10:

Assume a string variable ruler1 contains "1" initially i.e. String ruler1="1" Write a java program to print the following output using string concatenation. (You can take extra string variables)

1

1 2 1

1 2 1 3 1 2 1

1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

Question-1:

What do each of the following print?

```
a) System.out.println(2 + "bc");

b) System.out.println(2 + 3 + "bc");

c) System.out.println((2+3) + "bc");

d) System.out.println("bc" + (2+3));

e) System.out.println("bc" + 2 + 3);
```

Question-2:

What do each of the following print?

```
a) System.out.println('b');

b) System.out.println('b' + 'c');

c) System.out.println((char) ('a' + 4));
```

Question-3:

Suppose that a variable a is declared as int a = 2147483647 (or equivalently, Integer.MAX_VALUE). What do each of the following print?

```
a) System.out.println(a);

b) System.out.println(a+1);

c) System.out.println(2-a);

d) System.out.println(-2-a)

e) System.out.println(2*a);

f) System.out.println(4*a);
```

Question-4:

Suppose that a variable a is declared as double a = 3.14159. What do each of the following print?

```
a) System.out.println(a);
b) System.out.println(a+1);
c) System.out.println(8/(int) a);
d) System.out.println(8/a);
e) System.out.println((int) (8/a));
```

Question-5:

Write a java program to exchange the value of 4 variables W,G,K,A such that the value of W will move to A, A to K, K to G and finally G to W. Exchange using with and without using extra variables

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