**Objectives**

* Operator Precedence
* String Length
* String methods
* Reading input from keyboard

**Preprogram Questions**

1. What is the result of the following expression?

25 / 4 + 4 \* 10 % 3

1. 19
2. 5.25
3. 3
4. 7

Answer: D

1. What will be the value of z as a result of executing the following code?

int x = 5, y = 28;

double z;

z = (double) (y / x);

a) 5.60

b) 5.6

c) 3.0

d) 5.0

Answer: D

1. What is the output of the following code (what is displayed on the console)?

int myAge = 22;

System.out.println("my age now: " + myAge);

System.out.println("my age after 10 years " + myAge + 10);

System.out.println(myAge + 10 +" is my age after 10 years");

Answer:

my age now: 22

my age after 10 years 2210

32 is my age after 10 years

1. Which of the following statements correctly creates a Scanner object for keyboard input?

a) Scanner kbd = new Scanner(System.keyboard);

b) Scanner keyboard(System.in);

c) Scanner keyboard = new Scanner(System.in);

d) Keyboard scanner = new Keyboard(System.in);

Answer: C

**Practice writing Java Program**

1. Rearrange the code given below to accomplish the following goal:

* Prompt user to enter his/her age
* Input age
* Prompt user to enter his/her average score
* Input average score

public static void main(String[] args) {

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

}

public class ScannerExample {

avgScore= input.nextDouble();

int myAge;

double avgScore;

System.*out*.println ("Enter your age:");

myAge = input.nextInt();

System.*out*.println ("Enter your average score:");

}

import java.util.Scanner;

Answer:

**import** java.util.Scanner;

**public** **class** ScannerExample {

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

**int** myAge;

**double** avgScore;

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

System.***out***.println ("Enter your age:");

myAge = input.nextInt();

System.***out***.println ("Enter your average score:");

avgScore= input.nextDouble();

}

}

1. Write a program to accomplish the following goal:

-Prompt the user to enter his/her name as (FirstName LastName)

-Display the number of characters of the name entered

-Display the name as all uppercase letters

-Display the first character of the first name

Answer:

**import** java.util.Scanner;

**public** **class** ScannerExample {

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

String name;

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

System.***out***.println ("Enter name (first Last):");

name = input.nextLine();

System.***out***.println (name.length());

System.***out***.println (name.toUpperCase());

System.***out***.println (name.charAt(0));

}

}