

**Montgomery College, CMSC 203**  
**WorkSheet2 Answers**  
**Module 1**

**Objectives**

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

**Preprogram Questions**

1. What is the result of the following expression?

$25 / 4 + 4 * 10 \% 3$

- a) 19
- b) 5.25
- c) 3
- d) 7

Answer: D

2. 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

3. 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

**Montgomery College, CMSC 203**  
**WorkSheet2 Answers**  
**Module 1**

my age after 10 years 2210

32 is my age after 10 years

4. 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 {
```

Montgomery College, CMSC 203  
WorkSheet2 Answers  
Module 1

```
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();  
  
}  
}
```

2. 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));  
    }  
}
```