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|  | ***Patuakhali Science and Technology University*** |

Assignment on

***“***Solve the exercise 2.1 to 2.32***”***

Course Code: CCE-122

Course Title: Object Oriented Programming

Level - I; Semester - II

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| **Submitted By**  **Name: M.D. Sakibul Islam Shovon**  **ID:** 2302056  **REG:** 11834  **Session:** 2023-2024  Faculty of Computer Science and Engineering |

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| **Submitted To**  **Prof. Dr. Md. Samsuzzaman**  Professor of Computer and Communication Engineering Department  Faculty of Computer Science and Engineering |

**1. Solve the exercise 2.1 to 2.32**

**2.1**

a) A(n) **left brace (**{**)** begins the body of every method, and a(n) **right brace (**}**)** ends the body of every method.  
b) You can use the **if** statement to make decisions.  
c) **//** begins an end-of-line comment.  
d) **Space characters, newlines,** and **tabs** are called white space.  
e) **Keywords** are reserved for use by Java.  
f) Java applications begin execution at method **main**.  
g) Methods **System.out.print, System.out.println, and System.out.printf** display information in a command window.

**2.2**

a) **False**. Comments do not cause the computer to print the text after the // on the screen when the program executes. They are used for documentation and readability.  
b) **True**.   
c) **False**. Java is case sensitive, so the variables number and NUMBER are distinct.  
d) **False**. The remainder operator (%) can also be used with non-integer operands in Java.  
e) **False**. The arithmetic operators \*, /, and % have the same precedence, which is higher than the precedence of + and -.

**2.3**

**a) int c, thisIsAVariable, q76354, number;**

**b) System.out.print("Enter an integer: ");**

**c) value = input.nextInt();**

**d) System.out.println("This is a Java program");**

**e) System.out.printf("%s%n%s%n", "This is a Java", "program");**

**f) if (number != 7) System.out.println("The variable number is not equal to 7");**

**2.4**

a) Error: Semicolon after the right parenthesis of the condition (c < 7) in the if. Correction: Remove the semicolon after the right parenthesis.

b) Error: The relational operator => is incorrect. Correction: Change => to >=.

**2.5**

a) // Calculate the product of three integers

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

c) int x, y, z, result; or int x; int y; int z; int result;

d) System.out.print("Enter first integer: ");

e) x = input.nextInt(); f) System.out.print("Enter second integer: ");

g) y = input.nextInt(); h) System.out.print("Enter third integer: ");

i) z = input.nextInt();

j) result = x \* y \* z;

k) System.out.printf("Product is %d%n", result);

**2.6**

import java.util.Scanner;

public class Product {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

int result; // product of numbers

System.out.print("Enter 1st number: ");

Int x = input.nextInt();

System.out.print("Enter 2nd number: ");

int y = input.nextInt();

System.out.print("Enter 3rd number: ");

Int z = input.nextInt();

Int result = x \* y \* z;

System.out.println("Product is " + result);

}

}