

Chapter 2 Practice Set by Munawar

Questions

1. What will be the result of the following expression?

Float a= 7/4*9/2

Solution

```
//question 1
//wrong answer
float a=7/4*9/2;
System.out.println(a);
//correct answer
float b=7/4.0f*9/2.0f;
System.out.println(b);
```

2. Write a program to encrypt a grade by adding 8 to it. Decrypt it to show the correct grade.

Solution

```
//Question 2
char grade='B';
//encrypt
grade=(char) (grade+8);
System.out.println(grade);
//decrypt
grade=(char) (grade-8);
System.out.println(grade);
```

3. Use comparison operators to find out whether a given number is greater than the user entered number or not;

Solution

```
//question 3
int num1=50;
Scanner obj=new Scanner(System.in);
float num2=obj.nextInt();
System.out.println(num2>num1);
```

4. Write a following expression in a java program.

$$V^2 - u^2 / 2as$$

Solution

```
//question 4
float v=2;
float u=3;
float c=4,s=5;
float k=(v*v)-(u*u)/2*(b)*(s);
System.out.println(k);
```

5. Find the value of the following expression?

Solution

```
//question 5
int x=7;
int a=7*49/7+35/7;
System.out.println(a);
```

a=54

Source code:

```
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        //        //question 1
        //        //wrong answer
        //        float a=7/4*9/2;
        //        System.out.println(a);
        //        //correct answer
        //        float b=7/4.0f*9/2.0f;
        //        System.out.println(b);
        //
        //        //Question 2
        //        char grade='B';
        //        //encrypt
        //        grade=(char) (grade+8);
        //        System.out.println(grade);
        //        //decrypt
```

