

Date: 06/04/2020

Computer Applications worksheet – 1 for current class VIII students

Q1. Solve the following programs in Java and write the answers in computer notebook.

1. Write a program that calculates and prints the quotient obtained by dividing two integer numbers.
2. Write a program to convert miles to kilometres. (One mile equals 1.60935 kilometers). Accept the miles value from the user as double data type and convert accordingly.
3. Accept three sides of a triangle from the user(base, height and hypotenuse) and determine whether they form a right angled triangle or not.  
(formula:  $\text{hypotenuse}^2 = \text{base}^2 + \text{height}^2$ )
4. Accept a number from user and check if it is a single digit, double digit or triple digit number. (relational and conditional operators)
5. Input three sides of a triangle and check whether it is equilateral, isosceles or scalene triangle.
6. Using Switch-Case construct accept a number from the user and print the corresponding name of the week day.
7. Write a program that reads the month number and tells the number of days in the month. Take the year as a leap year.
8. Accept two integer values and a character from the user(+, -, \*, /)i.e. an arithmetic sign and display the appropriate arithmetic expression.(Use switch – case construct)
9. A cloth showroom has announced the following festival discount on the purchase of items based on the total cost of the items purchased:

Total cost	Discount
Less than Rs.2000	5%
Rs.2001 to Rs.5000	25%
Rs.5001 to Rs.10,000	35%
Above Rs.10,000	50%

Using if-else-if ladder construct, input the total cost and to compute and display the amount to be paid by the customer after availing the discount.

10. Write a program that inputs number of sides of a polygon and then determines whether it is a hexagon, a pentagon, a rectangle or a triangle.