

Kline Memorial School of UBS (2020 – 21)

Computer Applications - class IX

Date: 09th July 2020

Worksheet 6

Q1. Solve the following programs in Java using Scanner class (for inputs) and Math class methods:

1. Write a program that takes the distance of the commute in kilometres, the car fuel consumption rate in kilometre per gallon and the price of the gallon of petrol as input. The program should then display the cost of the commute.
2. Write a program that accepts a number x and then prints: x^0, x^1, x^3, x^4, x^5
3. Write a program to input the time in seconds. Display the time after converting them into hours, minutes and seconds

Sample Input: Time in seconds 5420

Sample Output : 1 Hour 30 Minutes 20 Seconds

4. Write a program to input a number. Calculate the square root and cube root. Finally display the result after rounding it off.
5. The standard form of a Quadratic equation is represented as:
 $ax^2 + bx + c = 0$; where $d = b^2 - 4ac$, known as "Discriminant" of the equation.
Write a program to input the values of a, b and c. Calculate the value of discriminant and display the output to the nearest whole number.
6. Create a program that will calculate the power value. It will ask the user to enter the base value and index value. On the basis of entered value the program will find the power value and display the output.
7. Write a program to accept two numbers. Find and display the square root of the larger number and cube root of the smaller number.
8. Write a program that computes the economy rate of a bowler who bowled for different runs in 4 different overs. (economy rate = total/4) [Accept runs from the bowler in different overs]
9. Calculate the payment for a proof-reader who is paid @Rs.80/- per page. The proof reader reads different number of pages in 4 consecutive weeks.
10. Accept the principal amount, rate of interest and time from user and calculate the simple and compound interest. Find the difference between both and round off the value.