

EIT Assignment

Hand out date : 12 Oct 2022

Hand in date : 16 Oct 2022

1. A computerized ticket counter of an underground metro rail station charges for each ride at the following rates:

Age	Amount/Head
18 or above	Rs. 5
5 or above but below 18	Rs. 3
Accompanying kids below 5	NIL

Write a Java code which takes as input the number of people of various age group and print a ticket. At the end of the journey state the number of passengers of different age group who travelled and total amount received as collection of fares.

2. Write a program that will read a series of integers from the user and store them in an array called arr[]. The program should then calculate and display the sum, product of all integers entered by the user.

Sample input-output :

Enter total numbers to read : 5

Key in 5 numbers :

3 6 5 4 7

The sum : 25

The product : 2520

3. Write a class with the name employee and basic pay as its data member, find gross pay of an employee for the following allowance and deductions

Dearness allowance = 25% of Basic pay

House rent allowance = 15% of Basic pay

Provident fund=8.33% of Basic pay

Net pay=basic pay + Dearness Allowance + House Rent Allowance

Gross Pay= Net pay – Provident Fund.

4. Write a program that calculates and prints the bill for a cellular telephone company. The company offers two types of service: regular and premium. Rates vary based on the type of service and are computed as follows:

a) Regular service: \$10.00 plus first 50 minutes are free. Charges for over 50 minutes are \$0.20 per minutes.

b) Premium service: \$25.00 plus:

- i. For calls made from 6.00am to 6.00pm, the first 75 minutes are free; charges for over 75 minutes are \$0.10 per minute.

- ii. For calls made from 6.00pm to 6.00am, the first 100 minutes are free; charges for over 100 minutes are \$0.05 per minute.

Your program should prompt the user to enter an account number, a service code r or R for regular service and p or P for premium service. Treat any other character as an error and the number of minutes the service was used during the day and the night (for premium service only). Your program should output the account number, type of services, number of minutes the telephone service was used and the amount due from the user.