Programming Fundamentals

Assignment 04

“Decision and Control Structures”

**Last date of Submission: 6th week by 6:00 p.m**

How to submit your assignment?

* Submit on email addresses (Teacher and TA both) provided on the facebook group.
* Put all your code in one word file, save / rename that file with your SID\_A3.doc

“First, solve the problem.

Then, write the code.”

— John Johnson

**Question 01:**At Imtiaz Super Store, while purchasing certain items, customer gets a discount of 10% only if the quantity of purchased itemsis more than Rs. 5000. If quantity and price per item are input through the keyboard, write a program to calculate the total bill.

**Question 02:** In a company an employee is paid as under:

If his basic salary is less than Rs. 15,000, then Home Rental Allowance = 10% of basic salary and Dining Allowance = 90% of basic salary. If his salary is either equal to or above Rs. 15,000 but less than Rs. 20,000 then Home Rental Allowance = Rs. 500 and Dining Allowance = 98% of basic salary. If the employee’s salary is input through the keyboard write a program to find his gross salary.

Gross Salary = Basic Salary + Home Rental Allowance + Dining Allowance

**Question 03:** Team Nascent Innovations is a software house that insures its software developers in the following cases:

* If the software developer is married.
* If the software developer is unmarried, male & above 28 years of age.
* If the software developer is unmarried, female & above 22 years of age.

In all other cases, the software developer is not insured. If he marital status, gender and age of the software developer are user defined, write a program to determine whether the software developer is to be insured or not.

**Question 04:** Write a program that asks user to enter a number, your program, then tells that is one of these: positive even, positive odd, negative even, negative odd or it’s a ZERO.

**Question 05:** Write a program to calculate the salary as per the following table:

|  |  |  |  |
| --- | --- | --- | --- |
| **Gender** | **Years of Service** | **Qualification** | **Salary** |
| Male | Greater or equals to 05 | MS or MBA | 90,000 |
| Greater or equals to 05 | BS or MCS | 60,000 |
| Less than 05 | BS or MCS | 50,000 |
| Less than 05 | BBA | 25,000 |
| Female | Greater or equals to 05 | MS or MBA | 80,000 |
| Greater or equals to 05 | BS or MCS | 55,000 |
| Less than 05 | BS or MCS | 40,000 |
| Less than 05 | BBA | 20,000 |

**Question 06:** If the ages of Alpha, Bravo and Charlie are taken as input from user, write a program that tell who is the youngest of them.