

# **Bahria University:**

## **Karachi Campus**



**COURSE: CSC-113 COMPUTER PROGRAMMING**  
**TERM: FALL 2022, CLASS: BSE- 1 (B)**

**Submitted By:**

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**Signed:**

**Remarks:**

**Score:**

# Bahria University:

## Karachi Campus



### LAB EXPERIMENT NO.

### LIST OF TASKS

TASK NO	OBJECTIVE
1	Write a program that will use switch statement and calculate the salary of an employee, on the bases of following table and formulae and display the calculated salary along with his provided name .
2	Multiply Array1 with Array2 and stores its result in Array3. Apply matrix rules for multiplication [RowN * ColN]. [Using loop]
3	Write a program that will generate the monthly installment and total amount to be paid of personal loan where the insurance is 2% and mark up is 18% per year, initial processing fee is 3%.
4	Write an Algorithm to generate total bill of an automobile shop, where the bill is divided into mechanical charges, vehicle parts charges, Auto wash charges and other charges for a customer if the total bill of mechanical charges and vehicle parts charges is over Rs. 10,000/- then the customer will get complementary car wash and car wash charges will be removed from the bill.
5	<b>write a program that will generate the following output</b>

### Submitted On:

(Date: DD/MM/YYYY)

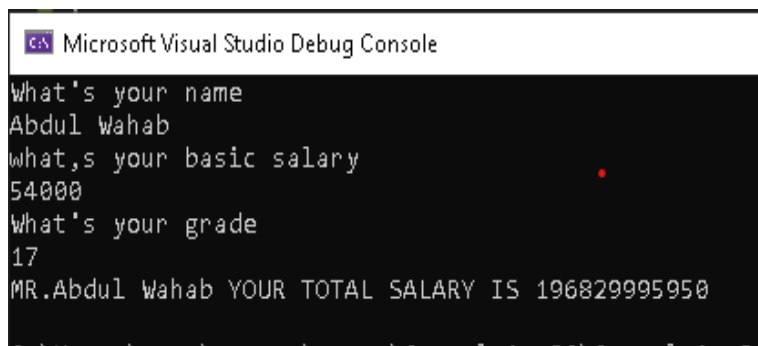
**Task#1:** Write a program that will use switch statement and calculate the salary of an employee, on the bases of following table and formulae and display the calculated salary along with his provided name.

```
using System;

namespace Salary1
{
    class Program
    {
        static void Main(string[] args)
        {
            int Bs, grade;
            string name;
            double totalsalary;
            Console.WriteLine("What's your name");
            name=Console.ReadLine();
            Console.WriteLine("what,s your basic salary");
            Bs = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("What's your grade");

            grade = Convert.ToInt32(Console.ReadLine());
            switch(grade )
            {
                case 17:
                    totalsalary = Bs*(0.05 * Bs)*(0.025 * Bs) - (0.075 * Bs);
                    Console.WriteLine("MR.{0} YOUR TOTAL SALARY IS {1}",name,totalsalary);
                    break;
                case 18:
                    totalsalary = Bs * (0.055 * Bs) * (0.03 * Bs) * (0.015 * Bs) -
                    (0.075 * Bs);
                    Console.WriteLine("\t\t Mr.{0} your total saiairy is {1} ",
                    totalsalary);
                    break;
                case 19:
                    totalsalary = Bs * (0.06 * Bs) * (0.033 * Bs) * (0.015 * Bs) -
                    (0.075 * Bs);
                    Console.WriteLine(" Mr.{0} your total salary is {1}",name,totalsalary);
                    break;
            }
        }
    }
}
```

**output:**



```
Microsoft Visual Studio Debug Console
What's your name
Abdul Wahab
what,s your basic salary
54000
What's your grade
17
MR.Abdul Wahab YOUR TOTAL SALARY IS 196829995950
```

**Task#2:** Multiply Array1 with Array2 and stores its result in Array3. Apply matrix rules for multiplication [RowN \* ColN]. [Using loop]

**Task#3** Write a program that will generate the monthly installment and total amount to be paid of personal loan where the insurance is 2% and mark up is 18% per year, initial processing fee is 3%.

Input:

```
using System;

namespace Output27
{
    class Program
    {
        static void Main(string[] args)
        {
            int loan;
            string name;

            Console.Write("Enter Your name = ");
            name = Console.ReadLine();
            Console.Write("Enter amount of loan = ");
            loan = int.Parse(Console.ReadLine());

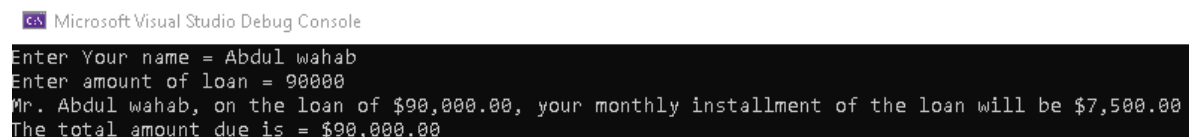
            double insurance = loan * (2 / 100);
            double markup = loan * (18 / 100);

            double processingFees = loan * (3 / 100);
            double mininstallment = (loan + insurance + markup + processingFees) / 12;
            double totalDue = mininstallment * 12;

            Console.WriteLine("Mr. {0}, on the loan of {1:C}, your monthly
installment of the loan will be {2:C}", name, loan, mininstallment);
            Console.WriteLine("The total amount due is = {0:C}", totalDue);

        }
    }
}
```

Output:



```
Microsoft Visual Studio Debug Console
Enter Your name = Abdul wahab
Enter amount of loan = 90000
Mr. Abdul wahab, on the loan of $90,000.00, your monthly installment of the loan will be $7,500.00
The total amount due is = $90,000.00
```

#### **Task#4:**

Write an Algorithm to generate total bill of an automobile shop, where the bill is divided into mechanical charges, vehicle parts charges, Auto wash charges and other charges for a customer if the total bill of mechanical charges and vehicle parts charges is over Rs. 10,000/- then the customer will get complementary car wash and car wash charges will be removed from the bill.

#### **Solution:**

**START**

**Ask USER ABOUT SERVICES SELECTED (VEHICLE PART CHANGE, MECHANICAL WORK, AUTO WASH ETC.)**

**REMOVE CAR WASH CHARGES AND PROVIDE Cooperative CAR WASH TO PROMPT USER FOR PAYMENT OF THE SERVICES THEY HAVE OPTED For,**

**PRINT THE TOTAL BILL is Larger Than Rs.10,000 FOR THE USER, PROVIDE COMPLEMENTARY CAR WASH, AND REMOVE CAR WASH CHARGES.**

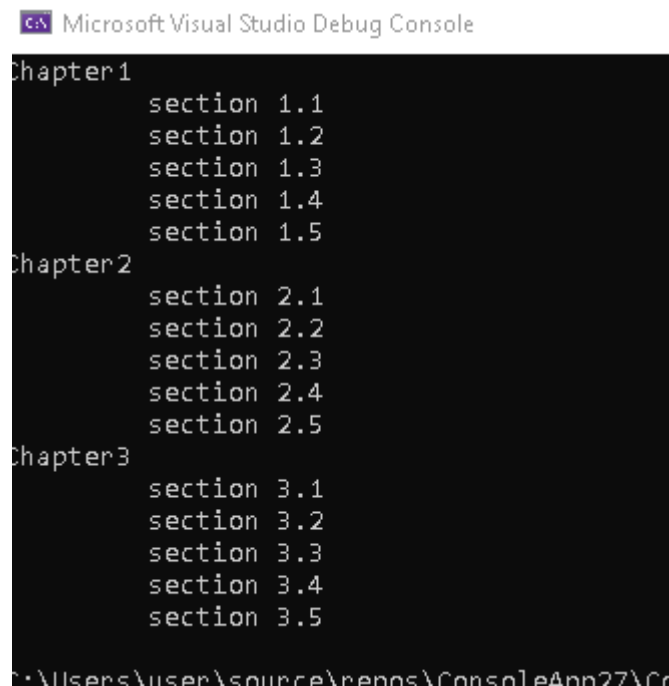
**END**

**Task 5:** Write a program that will generate the following output.

```
using System;

namespace ConsoleApp27
{
    class Program
    {
        static void Main(string[] args)
        {
            for (int i=1;i<= 3;i++)
            {
                Console.WriteLine("Chapter{0}",i);
                for(int j=1;j<=5;j++)
                {
                    Console.WriteLine("\t section {0}.{1}",i,j);
                }
            }
        }
    }
}
```

Output:



Microsoft Visual Studio Debug Console

```
Chapter1
    section 1.1
    section 1.2
    section 1.3
    section 1.4
    section 1.5
Chapter2
    section 2.1
    section 2.2
    section 2.3
    section 2.4
    section 2.5
Chapter3
    section 3.1
    section 3.2
    section 3.3
    section 3.4
    section 3.5
C:\Users\user\source\repos\ConsoleApp27\ConsoleApp27\Program.cs
```