**Assignment # 1**

**Program # 1:** Write a program where a tol tax officer pass the car if the driver has proper license and he belongs to army, either the driver has his /her official id card and he got Pakistan nationality or else he/she will not pass the car using switch statement.

**Program # 2:** Write a program that inputs a decimal number and converts it to binary digits

**Program # 3:** Read two +ve integer numbers N1 and N2 ,then test whether the large number is exactly divisible by the smaller one.in the process ,check that the input numbers are valid (N1 and N2>0) and then check which of the number is greater

**Program # 4:** Write a program that takes the lengths of the two legs of a right triangle as input and calculates area and hypotenuse

**Program # 5:** A pharmaceutical company pays 10% house rent of basic salary & 90% daily allowance of basic salary to its employees if the basic pay of the employees is less than 1500.the company pays 20% house rent & 95% daily allowance of basic salary if the basic pay of the employee is greater than or equal to 1500

Write a program that takes basic salary of an employee and calculate & print his gross salary

**Program # 6:** write a program that convert binary number into decimal numbers

**Program # 7:** Write a program to calculate factorial of a input +ve number and then plus square of all integer less than that integer

**Program # 8:** 01/01/1990,the day was Monday. If any date enter(ie 05/04/2005) is input through keyboard ,write a program to find out day of that date.

**Program # 9:** write a program that input an integer and checks number is perfect, deficit or abundant

**Program # 10:** Write a c program to check given number is palindrome number or not.

**Program # 11:** Write a c program to find out power of number. Without using built-in function

**Program # 12:** Write a c program to find out NCR factor of given number

**Program # 13:**  Write a program to count number of digits in a number

**Program # 14:** Write a program to convert decimal number to roman.

**Program # 15:** Write program to convert each digits of a number in words

**Program # 16:** Write a c program to subtract two numbers without using subtraction operator

**Program # 17:** Write a c program to print Fibonacci series of given range

**Program # 18:** Write a c program to add two numbers without using addition operator.

**Program # 19:** Write a c program to find out L.C.M. of four numbers.

**Program # 20:** Write a c program to find the perimeter of a circle, rectangle and triangle. Using Switch

**Program # 21:** Write a program for ATM transaction

**Program # 22:** Write a program that enter the speed of vehicle in kmph then convert to mph and show the speed is over 100mph,or 150mph,or80mph and if the speed is less than 80 show speed is less ,if the speed is higher than 80mph show speed is higher than 80mph if speed is higher than 100mph show speed is eligible for motor way and if the speed is higher than 150mph then show “you should lower the speed”.

**Program # 23:** Write a program in C++ that record the temperature of six days and then output the highest and the lowest temperature.

**Program # 24:** Write a program that gets an amount in from user and shows how many notes(of 1000, 500,100,50,20,10,5,2,1) can be in that amount

**Program # 25:** Write a menu driven program which has the following options

* Factorial of a number
* Prime or not
* Odd or even
* Exit