Lab Report-2

Problem-1: /\*1. Write a C program to accept two integers

 and check whether they are equal or not.

Test Data : 15 15

Expected Output :

Number1 and Number2 are equal

\*/

//source code

#include<stdio.h>

int main()

{

    int num1,num2;//Declearation and store value

    //scanning number

    printf("Enter two integar number:");

    scanf("%d %d",&num1,&num2);

    if(num1==num2)

    {

        printf("Number1 and Number2 are equal");

    }

    else

    printf("wrong input");

    return 0;

}

//output

Enter two integar number:15 15

Number1 and Number2 are equal

Problem-2: /\*2. Write a C program to read the age

of a candidate and determine whether he is eligible to

cast his/her own vote.

Test Data : 21

Expected Output :

Congratulation! You are eligible for casting your vote.

\*/

//source code

#include<stdio.h>

int main()

{

    int age;//Declearation and store value

    printf("Enter your age:");

    scanf("%d",&age);

    if(age>=18)

    {

        printf("Congratulation! You are eligible for casting your vote.");

    }

    else

    {

        printf("Otherwise you are not eligiable");

    }

    return 0;

}

//output

Enter your age:18

Congratulation! You are eligible for casting your vote.

Problem -3: /\*

Write a C program to find whether a given year

 is a leap year or not.

Test Data : 2016

Expected Output :

2016 is a leap year.

\*/

//source code

#include<stdio.h>

int main()

{

    int year;//decleration of age and store the value

    printf("Enter year:");

    scanf("%d",&year);

    if(year%400==0)

    {

        printf("%d is a leap year.",year);

    }

    else if(year%4==0 && year%100!=0)

    {

        printf("%d is a leap year.",year);

    }

    else

    printf("Not leap year");

}

//output

Enter year:2016

2016 is a leap year.

/\*

4. Write a C program to read the value of an

 integer m and display the value of n is 1 when

m is larger than 0, 0 when m is 0 and -1 when m is less than 0.

Test Data : -5

Expected Output :

The value of n = -1

\*/

//source code

#include<stdio.h>

int main()

{

    int m,n;//Declearation m and n

    printf("Enter value of m:");

    scanf("%d",&m);

    if(m>0)

    n=1;

    else if(m==0)

    n=0;

    else

    n=-1;

    printf("The value of n = %d\n",n);

    return 0;

}

//output

Enter value of m:-5

The value of n = -1

Problem-5: /\*Write a C program to determine

 eligibility for admission to a professional course based

on the following criteria:

Marks in Maths>=65

Marks in Phy>=55

Marks in Chem>=50

Total in all three subject>=190

or

Total in Math and Physics >=140

Expected Output :

The candidate is not eligible for admission.

\*/

//source code

#include<stdio.h>

int main()

{

   int math,phy,che,tm,mathphy;

   printf("Input the marks obtained in Physics :");

   scanf("%d",&phy);

   printf("Input the marks obtained in chemistry :");

   scanf("%d",&che);

   printf("Input the marks obtained in Mathmetics:");

   scanf("%d",&math);

   tm=math+phy+che;

   mathphy=math+phy;

   if((math>=65&&phy>=55&&che>=50)&&(tm>=190)||(mathphy>=140))

   {

    printf("The candidate  is eligible for admission");

   }

   else

   printf("The candidate  is not eligible for admission");

   return 0;

}

//output

Input the marks obtained in Physics :70

Input the marks obtained in chemistry :50

Input the marks obtained in Mathmetics:60

The candidate is not eligible for admission

/\*

6. Write a C program to read the roll no, name

and marks of three subjects and calculate the

total, percentage and division.

Test Data :

Input the Roll Number of the student :784

Input the Name of the Student :James Input

the marks of Physics, Chemistry and Computer

 Application : 70 80 90

Expected Output :

Roll No : 784

Name of Student : James

Marks in Physics : 70

Marks in Chemistry : 80

Marks in Computer Application : 90

Total Marks = 240

Percentage = 80.00

Division = First

\*/

//source code

#include<stdio.h>

#include<string.h>

int main()

{

    char n[10];

    int p,c,ca,tm,r;

    float per;

    char div[10];

    printf("Input the Roll Number of the student :");

    scanf("%d",&r);

    printf("Input the name of the student :");

    scanf("%s",&n);

    printf("Input the marks of physics ,chemistry,and coputer Application :");

    scanf("%d %d %d",&p,&c,&ca);

    tm=p+c+ca;

    per=(float)tm/3;

    if(per>=60)

    strcpy(div,"Frist");

    else if(per<60&&per>=48)

    strcpy(div,"second");

    else if (per<48&&per>=35)

    strcpy(div,"Third");

    else

    strcpy(div,"fail");

    printf("\n\n------------result-------------\n\n");

    printf("Roll No : %d\n",r);

    printf("Name of Student : %s\n",n);

    printf("Marks in Physics :%d\nMarks in Chemistry :%d\nMarks in Computer Application :%d\n",p,c,ca);

    printf("Total Marks =%d\nPercentage = %.2f\nDivision = %s\n",tm,per,div);

    return 0;

}

//output

Input the Roll Number of the student :784

Input the name of the student :James

Input the marks of physics ,chemistry,and coputer Application :70 80 90

------------result-------------

Roll No : 784

Name of Student : James

Marks in Physics :70

Marks in Chemistry :80

Marks in Computer Application :90

Total Marks =240

Percentage = 80.00

Division = Frist

The End