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**MATRIC NUMBER: 19/sci01/099**

**QUESTION 1**

#include<stdio.h>

int main ()

{ int year;

printf("Enter any year of your choice:");

scanf ("%d", &year);

if ((year%400 == 0) || ((year%4 == 0) && (year&100 != 0)))

{

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

}

else

{

 printf("The year %d is not a leap year", year);

}

return 0;

}

**QUESTION 2**

#include<stdio.h>

int main()

{

 double num1,num2,num3;

 printf("Enter the first number\n");

 scanf("%lf", &num1);

 printf("Enter the second number\n");

 scanf("%lf", &num2);

 printf("Enter the third number\n");

 scanf("%lf", &num3);

 if (num1>num2 && num1>num3) {

 printf("The highest number is :%f", num1);

 }

 else if (num2>num1 && num2>num3)

 {

 printf("The highest number is :%f", num2);

 }

 else

 {

 printf("The highest number is : %f", num3);

 }

 return 0;

}

**QUESTION 3**

#include<stdio.h>

int main()

{

 int marks,maths, chemistry, physics, biology, english, agric, french, totalmarks;

 float percentage, gpa;

 printf("Enter marks scored in maths: ");

 scanf("%d", &maths);

 printf("Enter marks scored in chemistry: ");

 scanf("%d", &chemistry);

 printf("Enter marks scored in physics: ");

 scanf("%d", &physics);

 printf("Enter marks scored in biology: ");

 scanf("%d", &biology);

 printf("Enter marks scored in english: ");

 scanf("%d", &english);

 printf("Enter marks scored in agric: ");

 scanf("%d", &agric);

 printf("Enter marks scored in french: ");

 scanf("%d", &french);

 totalmarks =maths + biology + physics + chemistry + english + agric + french;

 printf("Total marks scored in the 7 subjects is:%d out of 700\n", totalmarks);

 percentage= totalmarks \* 100/700;

 printf("Calculated percentage is: %f\n", percentage);

 if(percentage>=90 && percentage<=100)

 {

 printf("Your GPA = 4.0\n");

 printf("Your grade is A+\n");

 }

 else if(percentage>=85 && percentage<=89)

 {

 printf("Your GPA = 3.7\n");

 printf("Your grade is A\n");

 }

 else if(percentage>=80 && percentage<=84)

 {

 printf("Your GPA = 3.3\n");

 printf("Your grade is B+\n");

 }

 else if(percentage>=75 && percentage<=79)

 {

 printf("Your GPA = 3.0\n");

 printf("Your grade is B\n");

 }

 else if(percentage>=70 && percentage<=74)

 {

 printf("Your GPA = 2.7\n");

 printf("Your grade is B-\n");

 }

 else if(percentage>=65 && percentage<=69)

 {

 printf("Your GPA = 2.3\n");

 printf("Your grade is C+\n");

 }

 else if(percentage>=60 && percentage<=64)

 {

 printf("Your GPA=2.0\n");

 printf("Your grade is C-\n");

 }

 else if(percentage>=55 && percentage<=59)

 {

 printf("Your GPA = 1.7\n");

 printf("Your grade is D+\n");

 }

 else if(percentage>=50 && percentage<=54)

 {

 printf("Your GPA = 1.3\n");

 printf("Your grade is D-\n");

 }

 else if(percentage>=0 && percentage<50) {

 printf("Your GPA = 0.0\n");

 printf("Your grade is F\n");

 }

 return 0;

 getchar();

}