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18/SCI01/078

200 LEVEL

CSC 206 ASSIGNMENT

QUESTION 1: PROGRAM TO DETERMINE A LEAP YEAR

#include <stdio.h>

int main(){

int y;

printf("enter the year;\n");

scanf("%d", &y);

if(y % 4==0)

printf("this is a leap year:%d", y);

else if (y % 100==0)

printf("this is not a leap year: %d", y);

else if (y% 400== 0)

printf("this is a leap year:%d",y);

else

printf("this is not a leap year ");

return 0;

}

QUESTION 2: PROGRAM TO FIND THE MAXIMUM OF TWO NUMBERS

#include <stdio.h>

int main(){

int a,b,c;

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

scanf("%d", &a);

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

scanf("d", &b);

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

scanf("d", &c);

if(a>b&&a>c){

printf("the biggest number is: %d", a);

}

else if (b>a&&b>c){

printf("the biggest number is :%d", b);

}

else {

printf ("the biggest number is :%d", c);

}

return 0;

}

QUESTION 3: PROGRAM TO CALCULATE PERCENTAGE, GPA AND GRADE OF A STUDENT

#include <stdio.h>

int main()

{

int marks, maths, chemistry, physics, biology, english,agric, french, totalmarks, maxmarks, mark5, sum, avg,per;

float percentage, gpa;

maxmarks=700;

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 7th subjects is:%d out of 700\n",totalmarks);

percentage= totalmarks\* 100/700;

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

printf("enter marks of subject5 out of 100=");

scanf("%d", &mark5);

printf("maximum marks=%d",sum);

avg=sum/5;

printf("\nAverage =%0.2f", avg);

per=(sum\*100)/500;

printf("\nPercentage=%0.4f", per);

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

{

{

printf("\nGPA=4.0");

printf("nA+");

}

elseif (per>=85 &&per<=89)

{

printf("\nGPA=3.7");

printf("\nA");

}

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

{

printf("\nGPA=3.3");

printf("\nB+");

}

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

{

printf("\nGPA=3");

printf("nB");

}

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

{

printf("\nGPA=3");

printf("\nB");

}

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

{

printf("\nGPA=2.7");

printf("nB-");

}

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

{

printf("\nGPA=2.3");

printf("\nC+");

}

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

{

printf("\nGPA=2.0");

printf("\nC-");

}

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

{

printf("\nGPA=1.7");

printf("nD+");

}

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

{

printf("\nGPA=1.3");

printf("\nD+");

}

else if (per>=0 && per<50)

{

printf("\nGPA=0.0");

print("\nF");

}

return 0;

getchar ();

}