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QUESTION 2.1
```

```
#include <stdio.h>
int main() {
   float 11,12,13;
   printf("Please enter triangels edge lengths.\n");
   printf("First edge lenght: \n");
   scanf("%f",&l1);
   printf("Second edge lenght: \n");
   scanf("%f",&12);
   printf("Third edge lenght: \n");
   scanf("%f",&13);
   if((l1==l2)&&(l2==l3)){
       printf("This triangel is equilateral triangel.\n");
   }else if((l1==l2)||(l1==l3)||(l3==l2)){
       printf("This triangel is isosceles triangel.\n");
   }else{
       printf("This triangel is diverse triangel.\n");
   return 0;
```

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```
Please enter triangels edge lengths.
First edge lenght:

10
Second edge lenght:

15
Third edge lenght:

10
This triangel is isosceles triangel.

Process exited after 3.389 seconds with return value 0
Press any key to continue . . .
```

```
QUESTION 2.2
#include <stdio.h>
#include <math.h>
int main(){
   double a,b,c;
   printf("Enter the coefficients of the second degree equation as ax^2+bx+c n");
   printf("Enter a=");
   scanf("%lf",&a);
                                                                Enter the coefficients of the second degree equation as ax^2+bx+c
                                                                Enter a=1
   printf("Enter b=");
                                                                Enter b=4
   scanf("%lf",&b);
                                                                Enter c=1
                                                                This second degree equation have two Real Number roots.
   printf("Enter c=");
                                                                (Because Delta(12.000000) is greater then zero.)
   scanf("%lf",&c);
                                                                Roots of this second degree equation are -0.267949 and -3.732051 .
   double delta = pow(b,2)-4*a*c;
                                                                Process exited after 2.135 seconds with return value 0
   if (a == 0){
                                                                Press any key to continue . . .
       printf("a can not be 0!!!");
       return 1;
   if (delta<0){</pre>
       printf("This second degree equation doesn't have any Real Number roots.\n");
       printf("(Because Delta(%lf) is less then zero.\n)",delta);
   }else if(delta==0){
       printf("This second degree equation have just one Real Number root.\n");
       printf("(Because Delta(0) is zero.)\n");
       printf("Root of this second degree equation is %lf\n", -b/(2*a));
   }else{
       printf("This second degree equation have two Real Number roots.\n");
       printf("(Because Delta(%lf) is greater then zero.)\n",delta);
       double x1 = (-b + sqrt(delta))/(2*a);
       double x2 = (-b - sqrt(delta))/(2*a);
       printf("Roots of this second degree equation are %lf and %lf .\n",x1,x2);
   return 0;
```

#include <stdio.h> int main(){ int year; printf("Enter e year:"); scanf("%d",&year); if(year%4==0){ printf("%d is a leap year.",year); }else{ printf("%d is not a leap year.",year); } return 0;

QUESTION 2.3

```
Enter e year:2024
2024 is a leap year.
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Process exited after 1.947 seconds with return value 0
Press any key to continue . . . _
```

QUESTION 2.4

```
#include <stdio.h>
int main(){
   int int_array[3] = {0,0,0},int_temp;
   printf("Enter 3 integers to sort.\n");
   int i;
   for(i=0;i<3;i++){
       printf("Enter %d. integer:",i+1);
       scanf("%d",&int_array[i]);
   if (int_array[0]>int_array[1]){
       int_temp = int_array[1];
       int_array[1] = int_array[0];
       int_array[0] = int_temp;
   if (int_array[1]>int_array[2]){
       int_temp = int_array[2];
       int_array[2] = int_array[1];
       int_array[1] = int_temp;
   if (int_array[0]>int_array[1]) {
       int_temp = int_array[1];
       int_array[1] = int_array[0];
       int array[0] = int temp;
   printf("Sorted integers are:\n");
   for(i=0;i<3;i++){
       printf("%d ",int array[i]);
   return 0;
```

#include <stdio.h> int main(){ float pro_1,pro_2; printf("Enter first product\n"); scanf("%f",&pro_1); printf("Enter second product\n"); scanf("%f",&pro_2); if ((pro_1+pro_2)>=200){ printf("Total is %f",(pro_1+pro_2*0.75)); }else{ printf("Total is %f",(pro_1+pro_2)); } return 0;

QUESTION 2.5

```
Enter first product
200
Enter second product
300
Total is 425.000000
-----Process exited after 4.811 seconds with return value 0
Press any key to continue . . . _
```

QUESTION 2.6 #include <stdio.h>

```
int main(){
    int number;
    printf("Enter maximum 3-digit number\n");
    scanf("%d",&number);

    if(0<=number&&number<10){
        printf("Number entered by user is one-digit number\n");
    }else if(10<=number&&number<100){
        printf("Number entered by user is two-digit number\n");
    }else if(100<=number&&number<1000){
        printf("Number entered by user is three-digit number\n");
    }else {
        printf("Number entered by user is more than three-digit number or negative number\n");
    }
}</pre>
```

```
Enter maximum 3-digit number
354

Number entered by user is three-digit number

------
Process exited after 2.172 seconds with return value 0

Press any key to continue . . .
```

QUESTION 2.7 #include <stdio.h> #include <math.h> int main(){ int dgt_4; printf("Enter a 4 digit-number:\n"); scanf("%d",&dgt_4); if(999<dgt_4&&dgt_4<10000){ int i; for(i=0;i<4;i++){ int digit = (int)(dgt_4/pow(10,i))%10; printf("%d. digit is %d\n",i+1,digit); } }else{ printf("numeros no validas"); } }</pre>

return 0;

```
Enter a 4 digit-number:

1234

1. digit is 4

2. digit is 3

3. digit is 2

4. digit is 1

Process exited after 2.32 seconds with return value 0

Press any key to continue . . .
```