SIMATS
ENGINEERING

C Programming

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192210555

Questions

10. Write a program that takes three integers as input and prints the maximum and minimum of the three.

Swap 2 No's	Arithmatic
Convert	Rectangle
ODD EVEN	Leap
Max-Min	Sum-Avg

Run   Save

```c
1 #include<stdio.h>
2 int main() {
3 int m,n,temp;
4    printf("enter the value of m: ");
5    scanf("%d", &m);
6    printf("enter the value of n: ");
7    scanf("%d", &n);
8    temp = m;
9    m = n;
10   n = temp;
11   printf("enter the value of m as %d and enter the value of n as %d\n",m,n);
12   return 0;
13
```

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C Program to Swap Two Numbers.
Swapping two numbers in C programming means swapping the values of two variables.
For example, there are two variables m & n. Value of m is "2" & value of n is "3".
Before Swapping: m value = 2; n value = 3
After Swapping: m value = 3; n value = 2

Problem Description
Write a C program that swaps the values of two variables based on user input.

Testcases:
6,6
a,b

Convert	Rectangle
ODD EVEN	Leap
Max-Min	Sum-Avg

Run   Save

```
1 #include<stdio.h>
2 int main() {
3 int m,n,temp;
4   printf("enter the value of m: ");
5   scanf("%d", &m);
6   printf("enter the value of n: ");
7   scanf("%d", &n);
8   temp = m;
9   m = n;
10  n = temp;
11  printf("enter the value of m as %d and enter the value of n as %d\n",m,n);
12  return 0;
13
14 }
```

2 3

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Questions
6. Write a program that converts Celsius to Fahrenheit. The formula is Fahrenheit = (Celsius * 1.8) + 32.

Swap 2 No's	Arithmatic
Convert	Rectangle
ODD EVEN	Leap
Max-Min	Sum-Avg

Run   **Save**

```c
1 #include <stdio.h>
2 int main() {
3    float fahrenheit,celsius;
4    printf("enter the temperature celsius: ");
5    scanf("%f",&celsius);
6    fahrenheit=(celsius*1.8)+32;
7    printf("\n%.2f celsius is equal to %.2f fahrenheit\n", celsius,fahrenheit);
8    return 0;
9 }
```

```
-100
```

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C Programming

Questions
9. Write a program that determines whether a year is a leap year or not. A year is a leap year if it is divisible by 4, but not divisible by 100 unless it is also divisible by 400.

Swap 2 No's	Arithmatic	Convert
Rectangle	ODD EVEN	Leap
Max-Min	Sum-Avg	

Run   **Save**

2004

```c
1 #include<stdio.h>
2 int main() {
3   int year;
4   printf("enter the year: ");
5   scanf("%d", &year);
6   if((year % 4 == 0 && year % 100 == 0) || year % 400 == 0 ) {
7     printf("%d is a leap year.\n", year);
8   }
9   else {
10    printf("%d is not a leap year.\n", year);
11  }
12  return 0;
13 }
```

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Questions
10. Write a program that takes three integers as input and prints the maximum and minimum of the three.

| Swap 2 No's | Arithmatic | Convert | |
| ODD EVEN | Leap | Max-Min | |

Run   Save

```c
1 #include <stdio.h>
2 int main() {
3   int num1,num2,num3;
4   printf("enter three integers:");
5   scanf("%d %d %d", &num1,&num2,&num3);
6   int max=num1;
7   if (num2>max) {
8     max=num2;
9   }
10  if (num3>max){
11  }
12  int min=num1;
13  if (num2<min) {
14    min=num2;
15  }
16  if (num3<min) {
17    min=num3;
18  }
19  printf("maximun number is: %d\n",max);
20  printf("minimum number is: %d\n",min);
21 return 0;
22 }
```

```
45
67
87
```

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Questions
11. Write a program that takes a list of numbers as input and computes the sum and average of the numbers.

Swap 2 No's	Arithmatic	Convert
Rectangle	ODD EVEN	Leap
Max-Min	Sum-Avg	

Run   Save

```c
1 #include<stdio.h>
2 int main() {
3    int i,n,sum=0,numbers;
4    float average;
5    printf("\n please enter the how many numbers you want?\n");
6    scanf("%d", &n);
7 printf("\n enter te elements one by one\n");
8    for(i=0;i<n;i++) {
9       scanf("%d", &numbers);
10       sum = sum+numbers;
11    }
12    average = sum/n;
13    printf("\n sum of the %d numbers = %d", n,sum);
14    printf("\n average of the %d numbers = %.2f",n,average);
15    return 0;
16 }
```

```
3
4 8 6
```

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Run   Save

```c
1 #include<stdio.h>
2 int main(){
3 int a,b;
4 printf("enter a value:");
5 scanf("%d",&a);
6 printf("enter b value:");
7 scanf("%d",&b);
8 int sum,diff,pdt;
9 float quo;
10 int choice;
11 printf("enter choice between 1 and 4:");
12     scanf("%d",&choice);
13 if(choice==1){
14 sum=a+b;
15 printf("\nthe sum is %d",sum);
16 }
17 if(choice==2){
18     diff=a-b;
19  printf("\nthe difference is %d",diff);
20 }
21   if(choice==3){
```

```c
 8  int sum,diff,pdt;
 9  float quo;
10  int choice;
11  printf("enter choice between 1 and 4
12      scanf("%d",&choice);
13  if(choice==1){
14  sum=a+b;
15  printf("\nthe sum is %d",sum);
16  }
17  if(choice==2){
18      diff=a-b;
19   printf("\nthe difference is %d",diff)
20  }
21  if(choice==3){
22  pdt=a*b;
23  printf("\nthe product is %d",pdt);
24  }
25  if(choice==4){
26  quo=(a/b);
27  printf("\nthe quotient is %f",quo);
28  }
29  return 0;
30  }
```

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