

main.c



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Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int num1,num2,num3;
5     printf("enter three numbers:");
6     scanf("%d%d%d",&num1,&num2,&num3);
7     if(num1>=num2)
8     {
9         if(num1>=num3)
10        {
11            printf("%d is the largest number:\n",num1);
12        }
13        else
14        {
15            printf("%d is the largest number:\n",num3);
16        }
17    }
18    else
19    {
20        if(num2>=num3)
21        {
22            printf("%d is the largest number:\n",num2);
23        }
24        else
25        {
26            printf("%d is the largest number:\n",num3);
27        }
28    }
29 }
```

```
enter three numbers:67 78 63
78 is the largest number:
```

```
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```



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Output

```
1 #include<stdio.h>
2 int main()
3 {
4     int a;
5     printf("enter the year:");
6     scanf("%d",&a);
7     if(a==366)
8     {
9         printf("it is a leap year");
10    }
11    else
12    {
13        printf("the year is not a leap year");
14    }
15    return 0;
16 }
17
18
19
20
```

```
enter the year:2016
the year is not a leap year
```

```
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```



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```
1 #include<stdio.h>
2 int main()
3 {
4     char ch;
5     printf("enter the character:");
6     scanf("%c",&ch);
7     if(ch>='0' && ch<='9')
8     {
9         printf("the character '%c' is a digit:\n",ch);
10    }
11    else
12    {
13        if((ch>='A' && ch<='Z')||(ch>='a' && ch<='z'))
14        {
15            printf("the character '%c' is an alphabet:\n",ch);
16        }
17        else
18        {
19            printf("the character '%c' is a special character:\n",ch);
20        }
21    }
22    return 0;
23 }
24
25
26
```

enter the character:A  
the character 'A' is an alphabet:

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Output

Clear

```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     int opp,adj,hyp;
6     float phyth;
7     printf("enter the length of adjacent side:");
8     scanf("%d",&adj);
9     printf("enter the length of opposite side:");
10    scanf("%d",&opp);
11    printf("enter the length of hypotenuse:");
12    scanf("%d",&hyp);
13    phyth=sqrt((adj*adj)+(opp*opp));
14    if(hyp==(int)phyth){
15        printf("the triangle is a right triangle:\n");
16    }
17    else
18    {
19        printf("the triangle is not a right triangle:\n");
20    }
21    return 0;
22 }
23
24
25
26
27
```

```
- enter the length of adjacent side:5
  enter the length of opposite side:3
  enter the length of hypotenuse:6
  the triangle is not a right triangle:
```

```
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Output

Clear

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 int main()
4 {
5     int n1,n2,n3,n4;
6     printf("enter the numbers:");
7     scanf("%d%d%d%d",&n1,&n2,&n3,&n4);
8     if(n1<n2 && n1<n3 && n1<n4)
9     {
10         printf("%d is the smallest number:",n1);
11     }
12     else if(n2<n3 && n2<n4)
13     {
14         printf("%d is smallest number:",n2);
15     }
16     else if(n3<n4)
17     {
18         printf("%d is smallest number:",n3);
19     }
20     else
21     {
22         printf("%d is smallest number:",n4);
23     }
24     return 0;
25 }
```

enter the numbers:2 4 6 8

2 is the smallest number:

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Output

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 int main()
4 {
5     int units;
6     float bill=0;
7     printf("enter the number of units consumed:");
8     scanf("%d",&units);
9     if(units<=100)
10 {
11     bill=units*5;
12 }
13 else if(units<=300)
14 {
15     bill=(100*5)+((units-100)*7);
16 }
17 else{
18     bill=(100*5)+(200*7)+((units-300)*10);
19 }
20 printf("total electricity bill:Rs.%.2f\n",bill);
21 return 0;
22 }
```

```
enter the number of units consumed:60
total electricity bill:Rs.300.00
```

```
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```



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Output

```
1 #include <stdio.h>
2 #include <math.h>
3 int main(){
4     float a,b,c,discriminant,root1,root2;
5     printf("enter the coefficients a,b and c:\n");
6     printf("a:");
7     scanf("%f",&a);
8     printf("b:");
9     scanf("%f",&b);
10    printf("c:");
11    scanf("%f",&c);
12    discriminant=b*b-4*a*c;
13    if(discriminant>0){
14        root1=(-b+sqrt(discriminant))/(2*a);
15        root2=(-b-sqrt(discriminant))/(2*a);
16        printf("the roots are real and distinct:\n");
17        printf("Root 1=%.2f\n",root1);
18        printf("Root 2=%.2f\n",root2);
19    }else{
20        if(discriminant==0){
21            root1= -b/(2*a);
22            printf("the roots are real and equal:\n");
23            printf("Root 1=Root 2=%.2f\n",root1);
24        }else{
25            printf("the roots are imaginary.\n");
26        }
27    }
```

```
- enter the coefficients a,b and c:
a:1
b:2
c:1
the roots are real and equal:
Root 1=Root 2=-1.00
```

```
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```

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Output

Clear

```
1 #include <stdio.h>
2 #include<math.h>
3- int main(){
4     float a,b,c,discriminant,root1,root2;
5     printf("enter the coefficients a,b and c:\n");
6     printf("a:");
7     scanf("%f",&a);
8     printf("b:");
9     scanf("%f",&b);
10    printf("c:");
11    scanf("%f",&c);
12    discriminant=b*b-4*a*c;
13-    if(discriminant>0){
14        root1=(-b+sqrt(discriminant))/(2*a);
15        root2=(-b-sqrt(discriminant))/(2*a);
16        printf("the roots are real and distinct:\n");
17        printf("Root 1=%.2f\n",root1);
18        printf("Root 2=%.2f\n",root2);
19-    }else{
20-        if(discriminant==0){
21            root1= -b/(2*a);
22            printf("the roots are real and equal:\n");
23            printf("Root 1=Root 2=%.2f\n",root1);
24-        }else{
25            printf("the roots are imaginary.\n");
26        }
27    }
```

```
- enter the coefficients a,b and c:
a:2
b:3
c:5
the roots are imaginary.
```

```
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```





main.c

```
1 #include<stdio.h>
2 int main()
3 {
4     int number;
5     printf("enter a number:");
6     scanf("%d",&number);
7     if(number%2==0){
8         if(number%3==0){
9             printf("the number is divisible by both 2 and 3:\n");
10        }else{
11            printf("the number is divisible by 2 but not by 3:\n");
12        }
13    }else{
14        if(number%3==0){
15            printf("the number is divisible by 3 but not by 2:\n");
16        }else{
17            printf("the number is divisible by neither 2 nor 3:\n");
18        }
19    }
20    return 0;
21 }
22
```



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Output

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```
enter a number:6
the number is divisible by both 2 and 3:
```

```
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```



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Run

Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int number;
5     printf("enter a number:");
6     scanf("%d",&number);
7     if(number%2==0){
8     if(number%3==0){
9         printf("the number is divisible by both 2 and 3:\n");
10    }else{
11        printf("the number is divisible by 2 but not by 3:\n");
12    }
13    }else{
14        if(number%3==0){
15            printf("the number is divisible by 3 but not by 2:\n");
16        }else{
17            printf("the number is divisible by neither 2 nor 3:\n");
18        }
19    }
20    return 0;
21 }
22
```

enter a number:15  
the number is divisible by 3 but not by 2:

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Run

Output

Clear

```
1 #include<stdio.h>
2 int main()
3 {
4     int number;
5     printf("enter an integer:");
6     scanf("%d",&number);
7     if(number%4==0){
8         if(number%6==0){
9             printf("%d is divisible by both 4 and 6:\n",number);
10        }else{
11            printf("%d is divisible by 4 but not by 6:\n",number);
12        }
13    }else{
14        if(number%6==0){
15            printf("%d is divisible by 6 not by 4:\n",number);
16        }else{
17            printf("%d is not divisible by either 4 or 6:\n",number);
18        }
19    }
20    return 0;
21 }
22
23
```

enter an integer:12

12 is divisible by both 4 and 6:

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Run

Output

Clear

```
1  #include<stdio.h>
2  int main()
3  {
4      int number;
5      printf("enter an integer:");
6      scanf("%d",&number);
7      if(number%4==0){
8          if(number%6==0){
9              printf("%d is divisible by both 4 and 6:\n",number);
10         }else{
11             printf("%d is divisible by 4 but not by 6:\n",number);
12         }
13     }else{
14         if(number%6==0){
15             printf("%d is divisible by 6 not by 4:\n",number);
16         }else{
17             printf("%d is not divisible by either 4 or 6:\n",number);
18         }
19     }
20     return 0;
21 }
22
23
```

enter an integer:28

28 is divisible by 4 but not by 6:

=== Code Execution Successful ===