

main.c



Run

Output

```
1 #include<stdio.h>
2 int main(){
3     char ip;
4     int flag=0;
5     printf("Enter the character : ");
6     scanf("%c",&ip);
7     if(ip=='a' || ip=='A'){ flag=1;
8     printf("You entered vowel");}
9     if(ip=='e' || ip=='E'){ flag=1;
10    printf("You entered vowel");}
11    if(ip=='i' || ip=='I'){ flag=1;
12    printf("You entered vowel");}
13    if(ip=='o' || ip=='O'){ flag=1;
14    printf("You entered vowel");}
15    if(ip=='u' || ip=='U'){ flag=1;
16    printf("You entered vowel");}
17    if(flag==0)
18    printf("You entered consonant ");
19    return 0;
20 }
```

/tmp/vB30IpELxd.o  
Enter the character : b  
You entered consonant



main.c



Run

Output

```

1 #include <stdio.h>
2 #include <math.h>
3 int main() {
4     float a,b,c,r1,r2,d,img;
5     printf("Enter the value of a : ");
6     scanf("%f",&a);
7     printf("Enter the value of b : ");
8     scanf("%f",&b);
9     printf("Enter the value of c : ");
10    scanf("%f",&c);
11    d=(b*b)-4*a*c;
12    if (d>0)
13    {
14        r1= (-b+ sqrt (d))/ 2*a ;
15        r2=(-b- sqrt (d))/ 2*a ;
16        printf("Quadratic equation has two roots \n");
17        printf("two roots are r1=%g & r2= %g ",r1,r2);}
18    else if(d==0)
19    {
20        r1=r2=(-b/2*a);
21        printf("Roots are equal\n");

```

```

//pre/v880IdELx0.0
Enter the value of a : 2
Enter the value of b : 3
Enter the value of c : -4
Quadratic equation has two roots
two roots are r1=3.40312 & r2= -9.40312

```

```
19- {
20-     r1=r2=(-b/2*a);
21-     printf("two roots are equal\n");
22-     printf("r1= %g & r2= %g",r1,r2);}
23- else if (d<0)
24- {
25-     r1=r2=(-b/2*a);
26-     img= sqrt(-d)/2*a;
27-     printf("two roots are imaginary= %g \n",img);}
28- return 0;
29- }
```

main.c

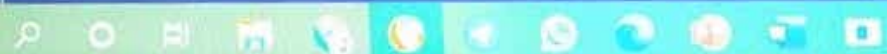


Run

Output

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

Enter the year to check leap year :2020  
leap year|



main.c



Run

Output

```
1 #include <stdio.h>
2 int main()
3 {
4     int a,b,dn1,dn2;
5     printf("enter a: ");
6     scanf("%d",&a);
7     printf("enter b: ");
8     scanf("%d",&b);
9     dn1=100-a;
10    dn2=100-b;
11    if(dn1<=dn2){
12        if(dn1==dn2){
13            printf("a %d is equal b %d",a,b);}
14        else{
15            printf("a %d is nearest to 100.",a);}
16        else{
17            printf("b %d is nearest to 100.",b);}
18    return 0;
19 }
```

/tmp/vB80IpELxd.o

enter a: 89

enter b: 98

b 98 is nearest to 100.



main.c



Run

Output

```
1 #include <stdio.h>
2 int main() {
3     int s,m,l;
4     printf("enter 1st no : ");
5     scanf("%d",&s);
6     printf("enter 2nd no : ");
7     scanf("%d",&m);
8     printf("enter 3rd no : ");
9     scanf("%d",&l);
10    if (((s<m&m<l)|| (m<s&s<l)|| (l<m&m<s)|| (l<s&s<m)|| (m<l&l<s)))
11        {
12        if((m-s==l-m)|| (s-m==l-s)|| (m-l==s-m)|| (s-l==m-s)|| (l-m==s-l))
13        {
14        printf("Difference in between small and medium and medium and large
15            is same.");
16        }
17    else {
18        printf("Difference in between small and medium and medium and large
19            is not same.");
20    }
21    else
22        printf("all the entered no are same . ");
23    return 0;
24 }
```

/tmp/vB80IpELxd.o

enter 1st no : 5

enter 2nd no : 10

enter 3rd no : 15

Difference in between small and medium and medium and large is same.

main.c



Run

Output

```
1 #include <stdio.h>
2 #include <string.h>
3 int main() {
4     char name[10];
5     int id;
6     int unit;
7     float bill;
8     float c1=1.20,c2=1.50,c3=1.80,c4=2.00,sc=0.15;
9     printf("Enter Customer Name : ");
10    scanf("%s",&name);
11    printf("Enter Customer id : ");
12    scanf("%d",&id);
13    printf("Enter the electricity units : ");
14    scanf("%d",&unit);
15    if (unit<=199){
16        bill=unit*c1;}
17    else if (unit>=200&&unit<400){
18        bill=unit*c2;}
19    else if (unit>=400&&unit<600){
20        bill= 400*c3; }
21    else if (unit>=600){
```

/tmp/vB80IpELxd.o

Enter Customer Name : rudra  
Enter Customer id : 200  
Enter the electricity units : 400  
Your unit is 400. and bill is 828.

```
21 -     else if (unit>=600){
22 -         bill=600*c4;}
23 - if (bill>400){
24 -     bill=bill + (bill*sc);}
25 -     if (bill<100) {
26 -         bill=100;}
27 -     printf(" Your unit is %d. and bill is %g.",unit,bill);
28 -     return 0;
29 - }
```



main.c



Run

Output

```
1 #include <stdio.h>
2 int main() {
3     float m1,m2,m3,total;
4     float avg;
5     printf("Enter mark1 : ");
6     scanf("%f",&m1);
7     printf("Enter mark2 : ");
8     scanf("%f",&m2);
9     printf("Enter mark3 : ");
10    scanf("%f",&m3);
11    total= (m1+m2+m3);
12    printf("Total marks obtained is : %g \n",total);
13    avg=(total/3);
14    printf("average mark is : %g\n",avg);
15    if (avg>=90&&avg<100) {printf("secured \"A\" grade"); }
16    else if (avg>=80&&avg<90) {printf("secured \"B\" grade"); }
17    else if (avg>=70&&avg<80){ printf("secured \"C\" grade"); }
18    else if (avg>=60&&avg<70) {printf("secured \"D\" grade"); }
19    else if (avg>=0&&avg<60) { printf("secured \"F\" grade"); }
20    return 0;
21 }
```

/tmp/vB80IpELxd.o

Enter mark1 : 79

Enter mark2 : 89

Enter mark3 : 98

Total marks obtained is : 266

average mark is : 88.6667

secured "B" grade

main.c

```
4 int month;
5 printf("Enter month number(1-12): ");
6 scanf("%d", &month);
7 switch(month) {
8     case 1:printf("31 days"); break;
9     case 2:printf("28/29 days"); break;
10    case 3: printf("31 days"); break;
11    case 4:printf("30 days");break;
12    case 5: printf("31 days");break;
13    case 6: printf("30 days");break;
14    case 7: printf("31 days"); break;
15    case 8: printf("31 days");break;
16    case 9:printf("30 days"); break;
17    case 10: printf("31 days"); break;
18    case 11:printf("30 days"); break;
19    case 12:printf("31 days"); break;
20 Default:printf("Invalid input! Please enter month number between 1
    -12"); }
21 return 0;
22 }
```

Output

```
/tmp/vB80TpEL.xd.o
Enter month number(1-12): 8
31 days|
```

main.c

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1 #include <stdio.h>

2 int main(){

3 char operator;

4 double a, b;

5 printf("Enter an operator (+, -, \*, /): ");

6 scanf("%c", &operator);

7 printf("Enter two operands: ");

8 scanf("%lf %lf", &a, &b);

9 switch (operator) {

10 case '+':

11 printf("%.1lf + %.1lf = %.1lf", a, b, a + b);break;

12 case '-':

13 printf("%.1lf - %.1lf = %.1lf", a, b, a - b); break;

14 case '\*':

15 printf("%.1lf \* %.1lf = %.1lf", a, b, a \* b); break;

16 case '/':

17 printf("%.1lf / %.1lf = %.1lf", a, b, a / b);break;

18 default: printf("Error! operator is not correct");

19 }

20 return 0;

21 }

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Run

Output

/tmp/vB801pfcxd.o

Enter an operator (+, -, \*, /): -

Enter two operands: 6.5 3.5

6.5 - 3.5 = 3.0

main.c



Run

Output

```
1 #include <stdio.h>
2 int main() {
3     char g;
4     printf("Please Enter Grade : ");
5     scanf("%c",&g);
6     switch (g)
7     {
8         case 'a': case 'A':
9             printf("Excellent");break;
10        case 'b': case 'B':
11            printf("Good"); break;
12        case 'c': case 'C':
13            printf("Average"); break;
14        case 'd': case 'D':
15            printf("Deficient");break;
16        case 'f':case 'F':
17            printf(" Failing");break;
18        default :printf("Wrong Grade!!!");
19    }
20    return 0;
21 }
```

Please Enter Grade : A  
Excellent

