

#### Compile Result

```
entre that value of a b and c 1 2 1
roots are real and equal r1=-1.000000 r2=
-1.000000
[Process completed - press Enter]
```

#### Compile Result

```
entre that value of a b and c 0 1 2
it is not quadratic equation
[Process completed - press Enter]
```

#### Compile Result

```
entre that value of a b and c 1 2 3
roots are complex and imaginary r1=-1.000
000+i1.414214 r2=-1.000000-i1.414214
[Process completed - press Enter]
```

#### Compile Result

```
entre that value of a b and c 1 3 1
roots are real and distinct r1=-0.381966
r2= -2.618034
[Process completed - press Enter]
```

## Coding C

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RUN

ME

```
1 #include<stdio.h>
2 #include<math.h>
3 #include<stdlib.h>
4 int main()
5 {
6     float a,b,c,r1,r2,d;
7     printf("entre that value of a b and c");
8     scanf("%f %f %f",&a,&b,&c);
9     if(a==0)
10    {
11        printf("it is not quadratic equation");
12        exit(0);
13    }
14    d=b*b-4*a*c;
15    if(d>0)
16    {
17        printf("roots are real and distinct");
18        r1=(-b+sqrt(d))/(2*a);
19        r2=(-b-sqrt(d))/(2*a);
20        printf("r1=%f r2= %f ",r1,r2);
21    }
22    else if(d==0)
23    {
24        printf("roots are real and equal");
25        r1=-b/(2*a);
26        r2=-b/(2*a);
27        printf("r1=%f r2=%f",r1,r2);
28    }
29    else
30    {
31        printf("roots are complex and imaginary");
32        r1=-b/(2*a);
33        r2=sqrt(fabs(d))/(2*a);
34        printf("r1=%f+i%f r2=%f-i%f",r1,r2,r1,r2);
35    }
36 }
```

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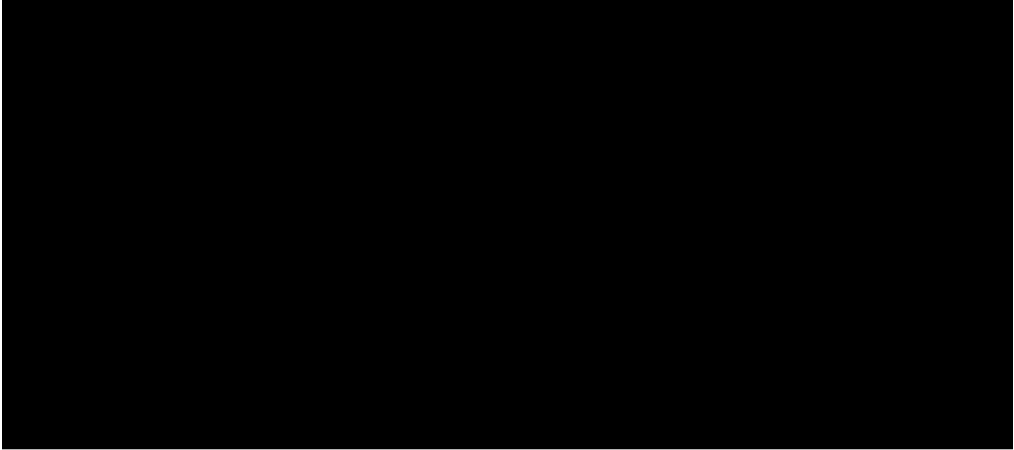
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“

main.c x	Save	Run	Output
<pre>1 #include&lt;stdio.h&gt; 2 void main() 3 { 4     float rupees; 5     int unit; 6     char name[10]; 7     printf("Enter the names"); 8     scanf("%s",&amp;name); 9     printf("\n enter the unites consumed:"); 10    scanf("%d",&amp;unit); 11    if(unit&lt;=200) 12        rupees=unit*0.8+100; 13    else if(unit&lt;=300) 14        rupees=200*0.8+(unit-200)*0.9+100; 15    else 16        rupees=200*0.8+100*0.9+(unit-300)*1+100; 17 18    if(rupees&gt;400) 19        rupees=200+0.15*rupees; 20 21    printf("%s has to pay %f",name,rupees); 22 }</pre>			<pre>/tmp/a.out Enter the names ram  enter the unites consumed: 250 ram has to pay 305.000000</pre>



<div>Compile Result</div> <div>entre the expression4*9 result=36 [Process completed - press Enter]</div>	<div>Compile Result</div> <div>entre the expression4/2 result=2 [Process completed - press Enter]</div>
<div>Code Editor</div> <div>Auto saved at 20:29:07</div> <div><div>RUNM</div><pre>1 #include&lt;stdio.h&gt; 2 int main() 3 { 4     int a,b,result; 5     char ch; 6     printf("entre the expression"); 7     scanf("%d %c %d",&amp;a,&amp;ch,&amp;b); 8     switch(ch) 9     { 10     case '+':result=a+b; 11             break; 12     case '-':result=a-b; 13             break; 14     case '*':result=a*b; 15             break; 16     case '/':result=a/b; 17             break; 18     case '/':if(b==0) 19     { 20         printf("invalid input"); 21         exit(0); 22     } 23     else 24     result=a/b; 25     break; 26     default:printf("invalid operator"); 27     exit(0); 28     } 29     printf("result=%d",result); 30 }</pre><div>Tab {} " ; ↶ ↷</div></div>	<div>Compile Result</div> <div>entre the expression7-3 result=4 [Process completed - press Enter]</div> <div>Compile Result</div> <div>entre the expression 4+3 result=7 [Process completed - press Enter]</div> <div>Compile Result</div> <div>entre the expression2%4 result=2 [Process completed - press Enter]</div>

