

Arnav Agrawal Lab 1 and Lab 2-200905200

Lab 1

Question 1

Write a C program to add two integers a and b read through the keyboard. Display the result using third variable sum.

```
// Arnav Agrawal
// 200905200
// Lab 1
// Question 1
// Write a C program to add two integers a and b read through the keyboard. Display the
// result using third variable sum
#include<stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a;
    int b;
    int sum;
    printf("Enter two numbers\n");
    scanf("%d%d",&a,&b);
    sum=a+b;
    printf("Sum is %d",sum);
    return 0;
}
```

```
1 // Arnav Agrawal
2 // 200905200
3 // Lab 1
4 // Question 1
5 // Write a C program to add two integers a and b read through the keyboard. Display the
6 // result using third variable sum
7 #include<stdio.h>
8 int main()
9 {
10     printf("Arnav Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     int a;
14     int b;
15     int sum;
16     printf("Enter two numbers\n");
17     scanf("%d%d",&a,&b);
18     sum=a+b;
19     printf("Sum is %d",sum);
20     return 0;
21 }
```

```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter two numbers
10 20
Sum is 30
Process returned 0 (0x0)   execution time : 4.864 s
Press any key to continue.
```

Question 2

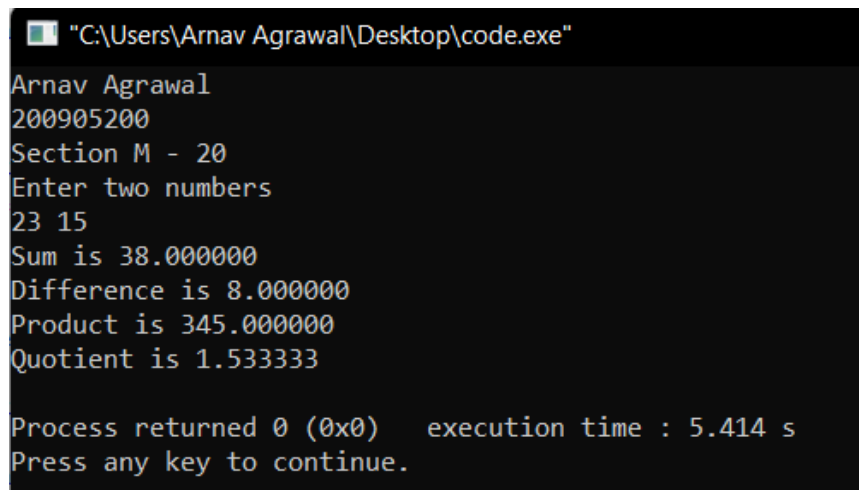
Write a C program to find the sum, difference, product and quotient of 2 numbers.

```
// Arnav Agrawal
// 200905200
// Lab 1
// Question 2
// Write a C program to find the sum, difference, product and quotient of 2 numbers
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    float a;
    float b;
    float c;
    printf("Enter two numbers\n");
    scanf("%f%f", &a, &b);
    c = a + b;
    printf("Sum is %f\n", c);
    c = a - b;
    printf("Difference is %f \n", c);
    c = a * b;
    printf("Product is %f\n", c);
    c = a / b;
    printf("Quotient is %f\n", c);
    return 0;
}
```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 1
4 // Question 2
5 // Write a C program to find the sum, difference, product and quotient of 2 numbers
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    float a;
13    float b;
14    float c;
15    printf("Enter two numbers\n");
16    scanf("%f%f", &a, &b);
17    c = a + b;
18    printf("Sum is %f\n", c);
19    c = a - b;
20    printf("Difference is %f\n", c);
21    c = a * b;
22    printf("Product is %f\n", c);
23    c = a / b;
24    printf("Quotient is %f\n", c);
25    return 0;
26 }
27

```



```

"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter two numbers
23 15
Sum is 38.000000
Difference is 8.000000
Product is 345.000000
Quotient is 1.533333

Process returned 0 (0x0)   execution time : 5.414 s
Press any key to continue.

```

Question 3

Write a C program to print the ASCII value of a character

```

// Arnav Agrawal
// 200905200
// Lab 1
// Question 3
// Write a C program to print the ASCII value of a character
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
}

```

```

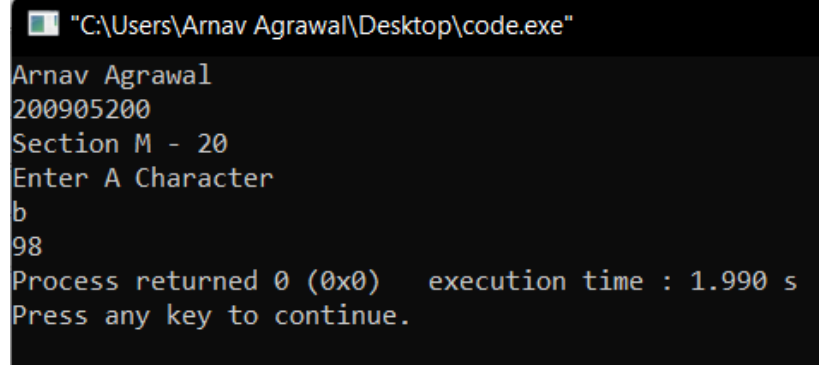
printf("Enter A Character\n");
char a;
scanf("%c", &a);
printf("%d", a);
return 0;
}

```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 1
4 // Question 3
5 // Write a C program to print the ASCII value of a character
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    printf("Enter A Character\n");
13    char a;
14    scanf("%c", &a);
15    printf("%d", a);
16    return 0;
17 }
18

```



```

"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter A Character
b
98
Process returned 0 (0x0)   execution time : 1.990 s
Press any key to continue.

```

Question 4

Write a C program to display the size of the data type int, char, float, double, long int and long double using size of () operator.

```

// Arnav Agrawal
// 200905200
// Lab 1
// Question 4
// Write a C program to display the size of the data type int, char, float, double, long
// int and long double using size of ( ) operator.
#include <stdio.h>
int main()

```

```

{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a;
    char b;
    float c;
    double d;
    long int e;
    long double f;
    printf("The size of type INT is %d bytes \n", sizeof(a));
    printf("The size of type CHAR is %d bytes \n", sizeof(b));
    printf("The size of type FLOAT is %d bytes \n", sizeof(c));
    printf("The size of type DOUBLE is %d bytes \n", sizeof(d));
    printf("The size of type LONG INT is %d bytes \n", sizeof(e));
    printf("The size of type LONG DOUBLE is %d bytes \n", sizeof(f));
    return 0;
}

```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 1
4 // Question 4
5 // Write a C program to display the size of the data type int, char, float, double, long
6 // int and long double using size of ( ) operator.
7 #include <stdio.h>
8 int main()
9 {
10     printf("Arnav Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     int a;
14     char b;
15     float c;
16     double d;
17     long int e;
18     long double f;
19     printf("The size of type INT is %d bytes \n", sizeof(a));
20     printf("The size of type CHAR is %d bytes \n", sizeof(b));
21     printf("The size of type FLOAT is %d bytes \n", sizeof(c));
22     printf("The size of type DOUBLE is %d bytes \n", sizeof(d));
23     printf("The size of type LONG INT is %d bytes \n", sizeof(e));
24     printf("The size of type LONG DOUBLE is %d bytes \n", sizeof(f));
25     return 0;
26 }
27

```

```

"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
The size of type INT is 4 bytes
The size of type CHAR is 1 bytes
The size of type FLOAT is 4 bytes
The size of type DOUBLE is 8 bytes
The size of type LONG INT is 4 bytes
The size of type LONG DOUBLE is 12 bytes

Process returned 0 (0x0)   execution time : 0.021 s
Press any key to continue.

```

Question 5

Input P, N and R to compute simple and compound interest. [Hint: $SI = PNR/100$, $CI = P(1+R/100)^N - P$]

```
// Arnab Agrawal
// 200905200
// Lab 1
// Question 5
// Input P, N and R to compute simple and compound interest.
#include <stdio.h>
#include <math.h>
int main()
{
    printf("Arnab Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    float P;
    float N;
    float R;
    printf("Enter P,N,R\n");
    scanf("%f %f %f", &P, &N, &R);
    float SI = P * N * R / 100;
    float CI = (P * pow((1 + (R / 100)), N)) - P;
    printf("Simple Interest - %f\n", SI);
    printf("Compound Interest - %f", CI);
    return 0;
}
```

```
1 // Arnab Agrawal
2 // 200905200
3 // Lab 1
4 // Question 5
5 // Input P, N and R to compute simple and compound interest.
6 #include <stdio.h>
7 #include <math.h>
8 int main()
9 {
10     printf("Arnab Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     float P;
14     float N;
15     float R;
16     printf("Enter P,N,R\n");
17     scanf("%f %f %f", &P, &N, &R);
18     float SI = P * N * R / 100;
19     float CI = (P * pow((1 + (R / 100)), N)) - P;
20     printf("Simple Interest - %f\n", SI);
21     printf("Compound Interest - %f", CI);
22     return 0;
23 }
24
```

```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter P,N,R
100 5 10
Simple Interest - 50.000000
Compound Interest - 61.050999
Process returned 0 (0x0)   execution time : 9.295 s
Press any key to continue.
```

Question 6

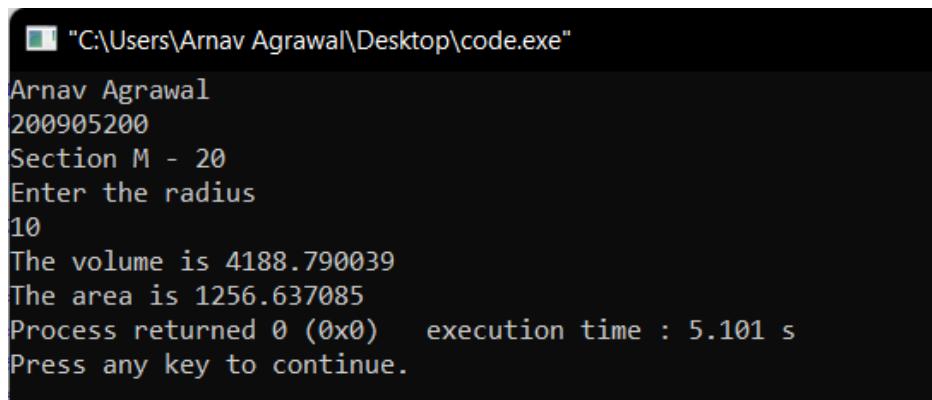
Input radius to find the volume and surface area of a sphere. [Hint: volume = $\frac{4\pi r^3}{3}$, Area = $4\pi r^2$]

```
// Arnav Agrawal
// 200905200
// Lab 1
// Question 6
// Input radius to find the volume and surface area of a sphere.
#define PI 3.141592654
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    float r;
    printf("Enter the radius\n");
    scanf("%f", &r);
    float v = 4 * PI * r * r * r / 3;
    float a = 4 * r * r * PI;
    printf("The volume is %f\n", v);
    printf("The area is %f", a);
    return 0;
}
```

```

1 // Arnab Agrawal
2 // 200905200
3 // Lab 1
4 // Question 6
5 // Input radius to find the volume and surface area of a sphere.
6 #define PI 3.141592654
7 #include <stdio.h>
8 int main()
9 {
10     printf("Arnab Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     float r;
14     printf("Enter the radius\n");
15     scanf("%f", &r);
16     float v = 4 * PI * r * r * r / 3;
17     float a = 4 * r * r * PI;
18     printf("The volume is %f\n", v);
19     printf("The area is %f", a);
20     return 0;
21 }
22

```



```

C:\Users\Arnab Agrawal\Desktop\code.exe
Arnab Agrawal
200905200
Section M - 20
Enter the radius
10
The volume is 4188.790039
The area is 1256.637085
Process returned 0 (0x0)   execution time : 5.101 s
Press any key to continue.

```

Question 7

Convert the given temperature in Fahrenheit to Centigrade. [Hint: $C = 5/9(F - 32)$]

```

// Arnab Agrawal
// 200905200
// Lab 1
// Question 7
// Convert the given temperature in Fahrenheit to Centigrade.
#include <stdio.h>
int main()
{
    printf("Arnab Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    float F;
    printf("Enter temp in degree fahrenheit\n");
    scanf("%f", &F);
    float C = (F - 32) * 5 / 9;
    printf("The given temp in Centigrade is %f", C);
}

```



```
    return 0;
}
```

```
1 // Arnav Agrawal
2 // 200905200
3 // Lab 1
4 // Question 7
5 // Convert the given temperature in Fahrenheit to Centigrade.
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    float F;
13    printf("Enter temp in degree fahrenheit\n");
14    scanf("%f", &F);
15    float C = (F - 32) * 5 / 9;
16    printf("The given temp in Centigrade is %f", C);
17    return 0;
18 }
19
```

```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter temp in degree fahrenheit
108
The given temp in Centigrade is 42.222221
Process returned 0 (0x0)   execution time : 5.318 s
Press any key to continue.
```

Question 8

Write a C program to evaluate the following expression for the values a = 30,

b=10, c=5, d=15

(i) $(a + b) * c / d$ (ii) $((a + b) * c) / d$

(iii) $a + (b * c) / d$ (iv) $(a + b) * (c / d)$

```
// Arnav Agrawal
// 200905200
// Lab 1
// Question 8
// Write a C program to evaluate the following expression for the values a = 30,
// b=10, c=5, d=15
#include<stdio.h>
int main()
```

```

{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a = 30;
    int b = 10;
    int c = 5;
    int d = 15;
    printf("Taking data type as int\n");
    printf("(i) - %d \n", (a + b) * c / d);
    printf("(ii) - %d \n", ((a + b) * c) / d);
    printf("(iii) - %d \n", a + (b * c) / d);
    printf("(iv) - %d \n", (a + b) * (c / d));
    float A = 30;
    float B = 10;
    float C = 5;
    float D = 15;
    printf("Taking data type as float\n");
    printf("(i) - %f \n", (A + B) * C / D);
    printf("(ii) - %f \n", ((A + B) * C) / D);
    printf("(iii) - %f \n", A + (B * C) / D);
    printf("(iv) - %f \n", (A + B) * (C / D));
    return 0;
}

```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 1
4 // Question 8
5 // Write a C program to evaluate the following expression for the values a = 30,
6 // b=10, c=5, d=15
7 #include<stdio.h>
8 int main()
9 {
10     printf("Arnav Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     int a = 30;
14     int b = 10;
15     int c = 5;
16     int d = 15;
17     printf("Taking data type as int\n");
18     printf("(i) - %d \n", (a + b) * c / d);
19     printf("(ii) - %d \n", ((a + b) * c) / d);
20     printf("(iii) - %d \n", a + (b * c) / d);
21     printf("(iv) - %d \n", (a + b) * (c / d));
22     float A = 30;
23     float B = 10;
24     float C = 5;
25     float D = 15;
26     printf("Taking data type as float\n");
27     printf("(i) - %f \n", (A + B) * C / D);
28     printf("(ii) - %f \n", ((A + B) * C) / D);
29     printf("(iii) - %f \n", A + (B * C) / D);
30     printf("(iv) - %f \n", (A + B) * (C / D));
31     return 0;
32 }
33

```

```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Taking data type as int
(i) - 13
(ii) - 13
(iii) - 33
(iv) - 0
Taking data type as float
(i) - 13.333333
(ii) - 13.333333
(iii) - 33.333333
(iv) - 13.333333

Process returned 0 (0x0)   execution time : 1.033 s
Press any key to continue.
```

Lab 2

Question 1

Check whether the given number is odd or even

```
// Arnav Agrawal
// 200905200
// Lab 2
// Question 1
// Check whether the given number is odd or even
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a;
    printf("Enter a number\n");
    scanf("%d", &a);
    if (a % 2 == 0)
    {
        printf("The number is even\n");
    }
    else
    {
        printf("The number is odd\n");
    }
    return 0;
}
```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 2
4 // Question 1
5 // Check whether the given number is odd or even
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    int a;
13    printf("Enter a number\n");
14    scanf("%d", &a);
15    if (a % 2 == 0)
16    {
17        printf("The number is even\n");
18    }
19    else
20    {
21        printf("The number is odd\n");
22    }
23    return 0;
24 }
25

```

```

C:\Users\Arnav Agrawal\Desktop\code.exe
Arnav Agrawal
200905200
Section M - 20
Enter a number
10
The number is even

Process returned 0 (0x0)   execution time : 4.996 s
Press any key to continue.

```

Question 2

Find the largest among given 3 numbers

```

// Arnav Agrawal
// 200905200
// Lab 2
// Question 2
// Find the largest among given 3 numbers
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a, b, c;
    printf("Enter three number\n");
    scanf("%d %d %d", &a, &b, &c);
    if (a > b)

```

```

{
    if (a > c)
    {
        printf("The largest number is a-%d\n", a);
    }
    else
    {
        printf("The largest number is c-%d\n", c);
    }
}
else
{
    if (b > c)
    {
        printf("The largest number is b-%d\n", b);
    }
    else
    {
        printf("The largest number is c-%d\n", c);
    }
}
return 0;
}

```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 2
4 // Question 2
5 // Find the largest among given 3 numbers
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    int a, b, c;
13    printf("Enter three number\n");
14    scanf("%d %d %d", &a, &b, &c);
15    if (a > b)
16    {
17        if (a > c)
18        {
19            printf("The largest number is a-%d\n", a);
20        }
21        else
22        {
23            printf("The largest number is c-%d\n", c);
24        }
25    }
26    else
27    {
28        if (b > c)
29        {
30            printf("The largest number is b-%d\n", b);
31        }
32        else
33        {
34            printf("The largest number is c-%d\n", c);
35        }
36    }
37    return 0;
38 }

```

```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter three number
123 345 567
The largest number is c-567

Process returned 0 (0x0)   execution time : 8.091 s
Press any key to continue.
```

Question 3

Swap two numbers without using third variable.

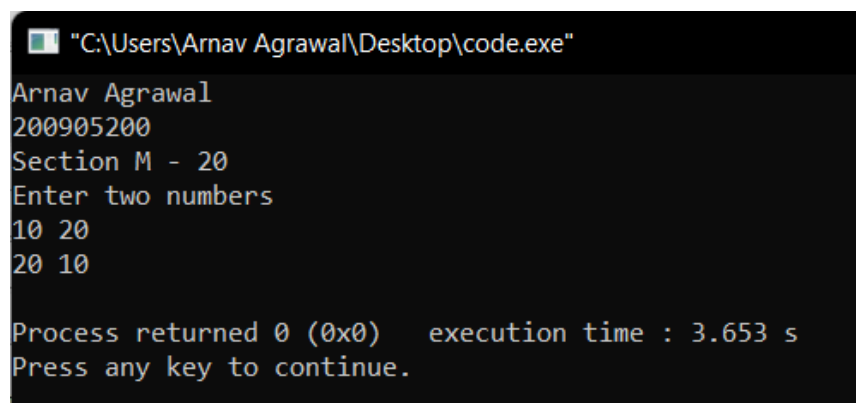
```
// Arnav Agrawal
// 200905200
// Lab 2
// Question 3
// Swap two numbers without using third variable.

#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a, b;
    printf("Enter two numbers\n");
    scanf("%d %d", &a, &b);
    a = a + b;
    b = a - b;
    a = a - b;
    printf("%d %d\n", a, b);
    return 0;
}
```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 2
4 // Question 3
5 // Swap two numbers without using third variable.
6
7 #include <stdio.h>
8 int main()
9 {
10     printf("Arnav Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     int a, b;
14     printf("Enter two numbers\n");
15     scanf("%d %d", &a, &b);
16     a = a + b;
17     b = a - b;
18     a = a - b;
19     printf("%d %d\n", a, b);
20     return 0;
21 }

```



```

"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter two numbers
10 20
20 10

Process returned 0 (0x0)   execution time : 3.653 s
Press any key to continue.

```

Question 4

Compute all the roots of a quadratic equation using switch case statement.

```

// Arnav Agrawal
// 200905200
// Lab 2
// Question 4
// Compute all the roots of a quadratic equation using switch case statement.
#include <stdio.h>
#include <math.h>
int main()
{

```

```

printf("Arnav Agrawal\n");
printf("200905200\n");
printf("Section M - 20\n");
float a;
float b;
float c;
printf("Please enter a,b and c\n");
scanf("%f %f %f", &a, &b, &c);
printf("Finding roots of %fx^2 + (%f)x + (%f)\n", a, b, c);
float d; //discriminant
float r1; //first root
float r2;
float imaginary;
d = b * b - (4 * a * c);
switch (d > 0)
{
case 1:
    r1 = (-b + sqrt(d)) / (2 * a);
    r2 = (-b - sqrt(d)) / (2 * a);
    printf("Two distinct and real roots: %f and %f\n", r1, r2);
    break;
case 0:
    switch (d < 0)
    {
case 1:
        r1 = r2 = -b / (2 * a);
        imaginary = sqrt(-d) / (2 * a);
        printf("Two distinct complex roots: %f + i%f and %f - i%f\n", r1, imaginary, r2, imaginary);
        break;
case 0:
        r1 = r2 = -b / (2 * a);
        printf("Two equal and real roots: %f and %f\n", r1, r2);
        break;
    }
    break;
}
return 0;
}

```



```

1 // Arnab Agrawal
2 // 200905200
3 // Lab 2
4 // Question 4
5 // Compute all the roots of a quadratic equation using switch case statement.
6 #include <stdio.h>
7 #include <math.h>
8 int main()
9 {
10     printf("Arnab Agrawal\n");
11     printf("200905200\n");
12     printf("Section M - 20\n");
13     float a;
14     float b;
15     float c;
16     printf("Please enter a,b and c\n");
17     scanf("%f %f %f", &a, &b, &c);
18     printf("Finding roots of %fx^2 + (%f)x + (%f)\n", a, b, c);
19     float d; //discriminant
20     float r1; //first root
21     float r2;
22     float imaginary;
23     d = b * b - (4 * a * c);
24     switch (d > 0)
25     {
26     case 1:
27         r1 = (-b + sqrt(d)) / (2 * a);
28         r2 = (-b - sqrt(d)) / (2 * a);
29         printf("Two distinct and real roots: %f and %f\n", r1, r2);
30         break;
31     case 0:
32         switch (d < 0)
33         {
34         case 1:
35             r1 = r2 = -b / (2 * a);
36             imaginary = sqrt(-d) / (2 * a);
37             printf("Two distinct complex roots: %f + i%f and %f - i%f\n", r1, imaginary, r2, imaginary);
38             break;
39         case 0:
40             r1 = r2 = -b / (2 * a);
41             printf("Two equal and real roots: %f and %f\n", r1, r2);
42             break;
43         }
44         break;
45     }
46     return 0;
47 }

```

```

C:\Users\Arnab Agrawal\Desktop\code.exe
Arnab Agrawal
200905200
Section M - 20
Please enter a,b and c
1 2 1
Finding roots of 1.000000x^2 + (2.000000)x + (1.000000)
Two equal and real roots: -1.000000 and -1.000000

Process returned 0 (0x0)   execution time : 7.238 s
Press any key to continue.

```

```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Please enter a,b and c
1 33 4
Finding roots of 1.000000x^2 + (33.000000)x + (4.000000)
Two distinct and real roots: -0.121661 and -32.878338

Process returned 0 (0x0)   execution time : 3.033 s
Press any key to continue.
```

Question 5

Write a program that will read the value of x and evaluate the following function

```
// Arnav Agrawal
// 200905200
// Lab 2
// Question 5
// Write a program that will read the value of x and evaluate the following function
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    float x;
    printf("Please enter x\n");
    scanf("%f", &x);
    if (x > 0)
    {
        int y = 1;
        printf("The value of y is %d \n", y);
    }
    else if (x == 0)
    {
        int y = 0;
        printf("The value of y is %d \n", y);
    }
    else
    {
        int y = -1;
        printf("The value of y is %d \n", y);
    }
}
```

```

1 // Arnav Agrawal
2 // 200905200
3 // Lab 2
4 // Question 5
5 // Write a program that will read the value of x and evaluate the following function
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    float x;
13    printf("Please enter x\n");
14    scanf("%f", &x);
15    if (x > 0)
16    {
17        int y = 1;
18        printf("The value of y is %d \n", y);
19    }
20    else if (x == 0)
21    {
22        int y = 0;
23        printf("The value of y is %d \n", y);
24    }
25    else
26    {
27        int y = -1;
28        printf("The value of y is %d \n", y);
29    }
30 }
31

```

```

C:\Users\Arnav Agrawal\Desktop\code.exe
Arnav Agrawal
200905200
Section M - 20
Please enter x
0
The value of y is 1

Process returned 0 (0x0)   execution time : 2.151 s
Press any key to continue.

```

Question 6

Find the smallest among three numbers using conditional operator

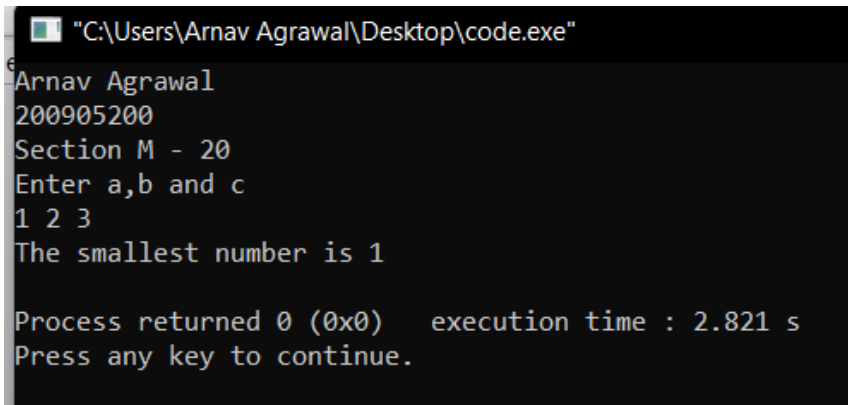
```

// Arnav Agrawal
// 200905200
// Lab 2
// Question 6
// Find the smallest among three numbers using conditional operator.
#include <stdio.h>
int main()
{
    printf("Arnav Agrawal\n");
    printf("200905200\n");
    printf("Section M - 20\n");
    int a, b, c;
    printf("Enter a,b and c\n");
    scanf("%d %d %d", &a, &b, &c);
    int min;
    min = (a < b) ? ((a < c) ? a : c) : ((b < c) ? b : c);
    printf("The smallest number is %d\n", min);
}

```

```
    return 0;
}
```

```
1 // Arnav Agrawal
2 // 200905200
3 // Lab 2
4 // Question 6
5 // Find the smallest among three numbers using conditional operator.
6 #include <stdio.h>
7 int main()
8 {
9     printf("Arnav Agrawal\n");
10    printf("200905200\n");
11    printf("Section M - 20\n");
12    int a, b, c;
13    printf("Enter a,b and c\n");
14    scanf("%d %d %d", &a, &b, &c);
15    int min;
16    min = (a < b) ? ((a < c) ? a : c) : ((b < c) ? b : c);
17    printf("The smallest number is %d\n", min);
18    return 0;
19 }
```



```
"C:\Users\Arnav Agrawal\Desktop\code.exe"
Arnav Agrawal
200905200
Section M - 20
Enter a,b and c
1 2 3
The smallest number is 1

Process returned 0 (0x0)   execution time : 2.821 s
Press any key to continue.
```