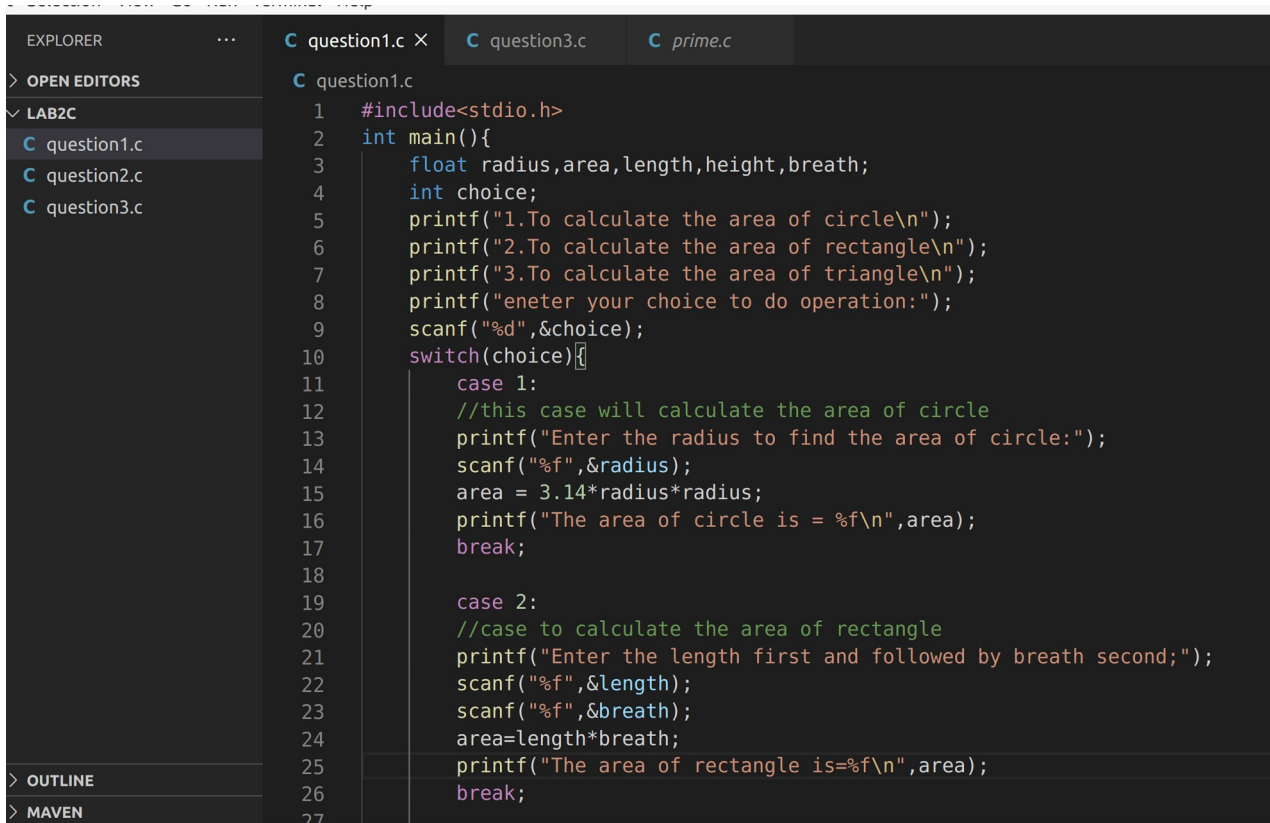
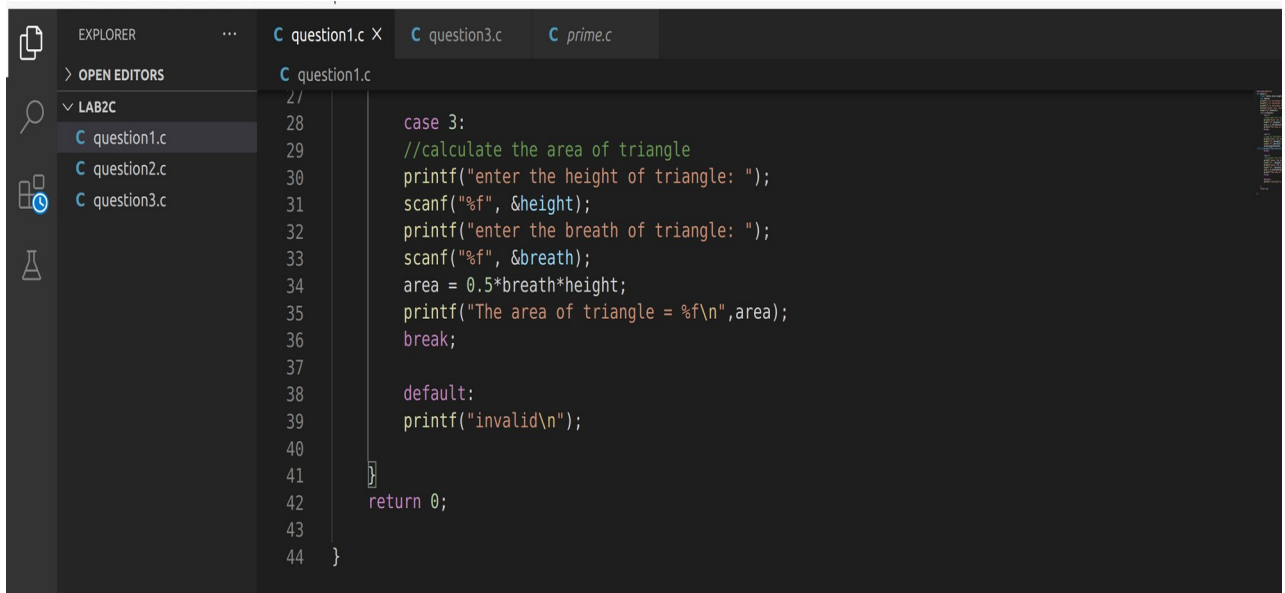


Question1



The screenshot shows the Visual Studio Code interface with three tabs: question1.c, question3.c, and prime.c. The 'question1.c' tab is active, displaying a C program. The code includes `<stdio.h>` and defines a `main()` function. It declares variables for `radius`, `area`, `length`, `height`, and `breath`, and an `int` variable `choice`. The program uses `printf` to display three menu options: 1. To calculate the area of circle, 2. To calculate the area of rectangle, and 3. To calculate the area of triangle. It then uses `scanf` to get the user's choice and a `switch` statement to handle the three cases. Case 1 calculates the area of a circle using the formula $area = 3.14 * radius * radius$. Case 2 calculates the area of a rectangle using the formula $area = length * breath$. The code is as follows:

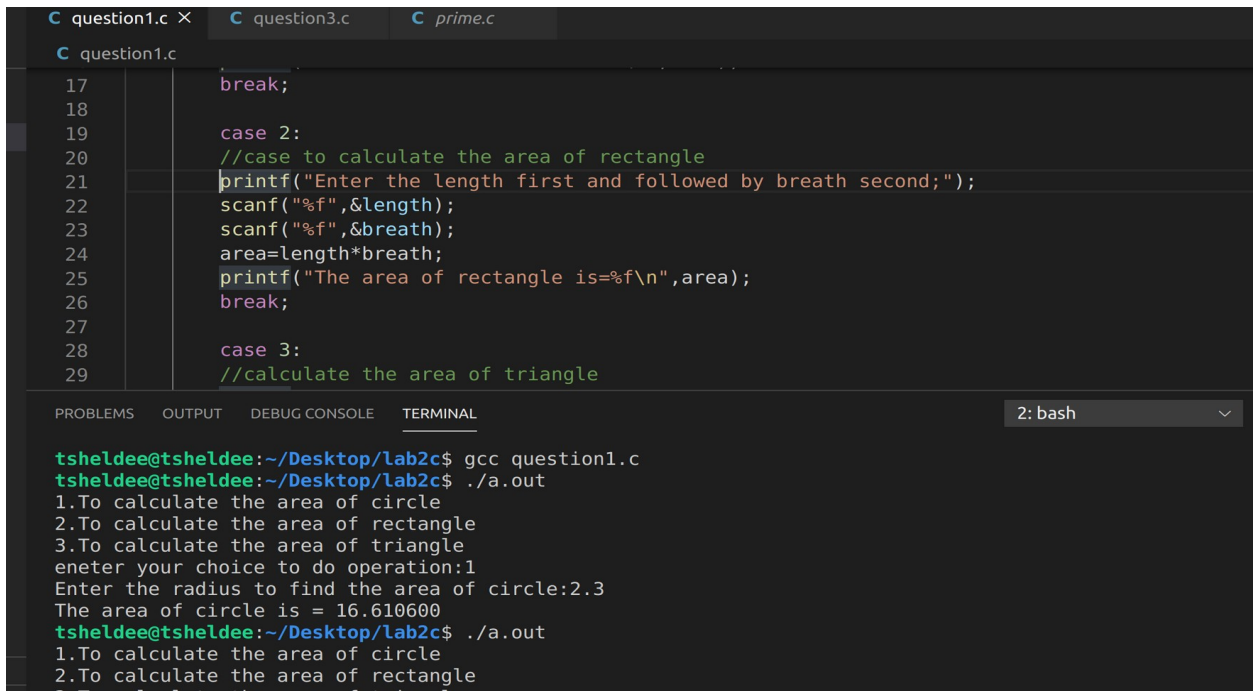
```
1  #include<stdio.h>
2  int main(){
3      float radius,area,length,height,breath;
4      int choice;
5      printf("1.To calculate the area of circle\n");
6      printf("2.To calculate the area of rectangle\n");
7      printf("3.To calculate the area of triangle\n");
8      printf("eneter your choice to do operation:");
9      scanf("%d",&choice);
10     switch(choice){
11         case 1:
12             //this case will calculate the area of circle
13             printf("Enter the radius to find the area of circle:");
14             scanf("%f",&radius);
15             area = 3.14*radius*radius;
16             printf("The area of circle is = %f\n",area);
17             break;
18
19         case 2:
20             //case to calculate the area of rectangle
21             printf("Enter the length first and followed by breath second;");
22             scanf("%f",&length);
23             scanf("%f",&breath);
24             area=length*breath;
25             printf("The area of rectangle is=%f\n",area);
26             break;
27
```



This screenshot shows the continuation of the C program from the previous image. It includes case 3 for calculating the area of a triangle using the formula $area = 0.5 * breath * height$. It also includes a `default` case that prints "invalid\n". The `main` function concludes with `return 0;` and a closing brace. The code is as follows:

```
27     }
28
29     case 3:
30         //calculate the area of triangle
31         printf("enter the height of triangle: ");
32         scanf("%f", &height);
33         printf("enter the breath of triangle: ");
34         scanf("%f", &breath);
35         area = 0.5*breath*height;
36         printf("The area of triangle = %f\n",area);
37         break;
38
39     default:
40         printf("invalid\n");
41
42     return 0;
43 }
44
```

output

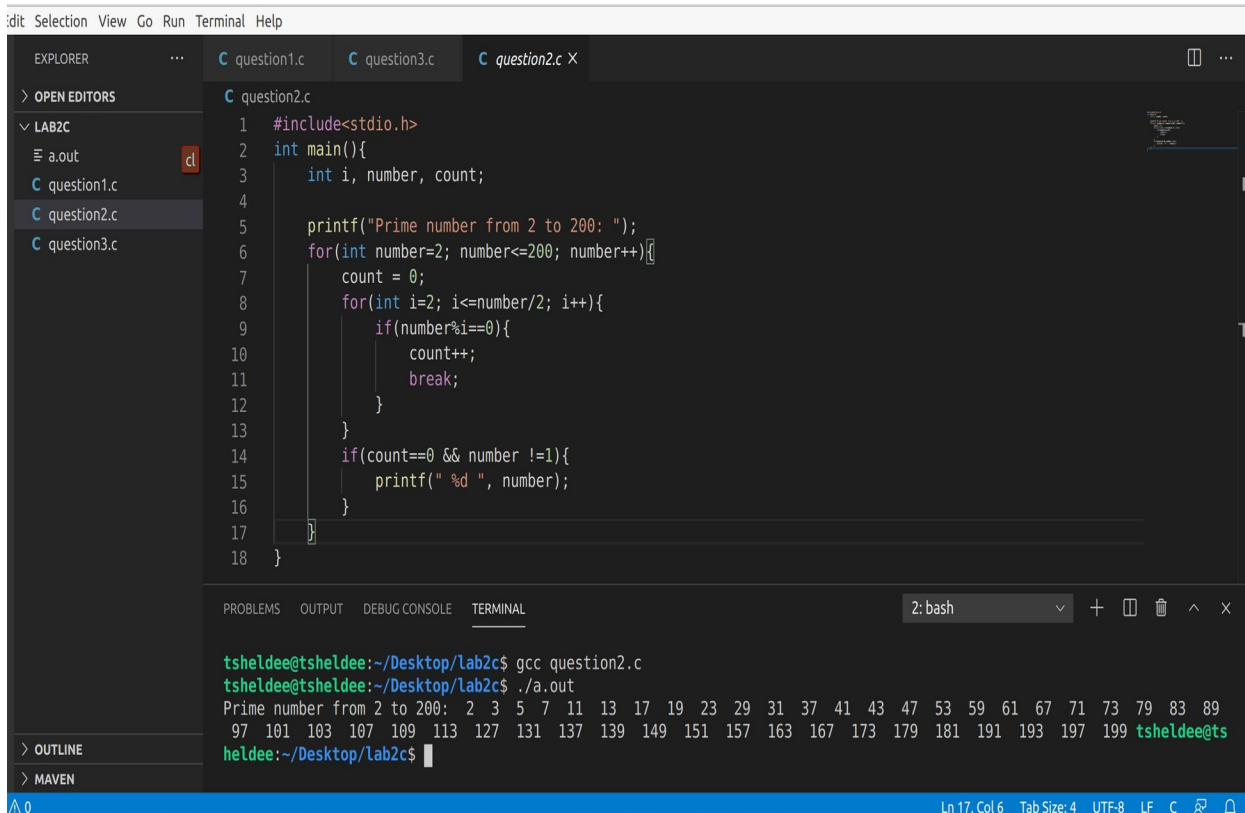


```
17 break;
18
19 case 2:
20     //case to calculate the area of rectangle
21     printf("Enter the length first and followed by breath second;");
22     scanf("%f",&length);
23     scanf("%f",&breath);
24     area=length*breath;
25     printf("The area of rectangle is=%f\n",area);
26     break;
27
28 case 3:
29     //calculate the area of triangle
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 2: bash

```
tsheldee@tsheldee:~/Desktop/lab2c$ gcc question1.c
tsheldee@tsheldee:~/Desktop/lab2c$ ./a.out
1.To calculate the area of circle
2.To calculate the area of rectangle
3.To calculate the area of triangle
enter your choice to do operation:1
Enter the radius to find the area of circle:2.3
The area of circle is = 16.610600
tsheldee@tsheldee:~/Desktop/lab2c$ ./a.out
1.To calculate the area of circle
2.To calculate the area of rectangle
3.To calculate the area of triangle
```

Question2

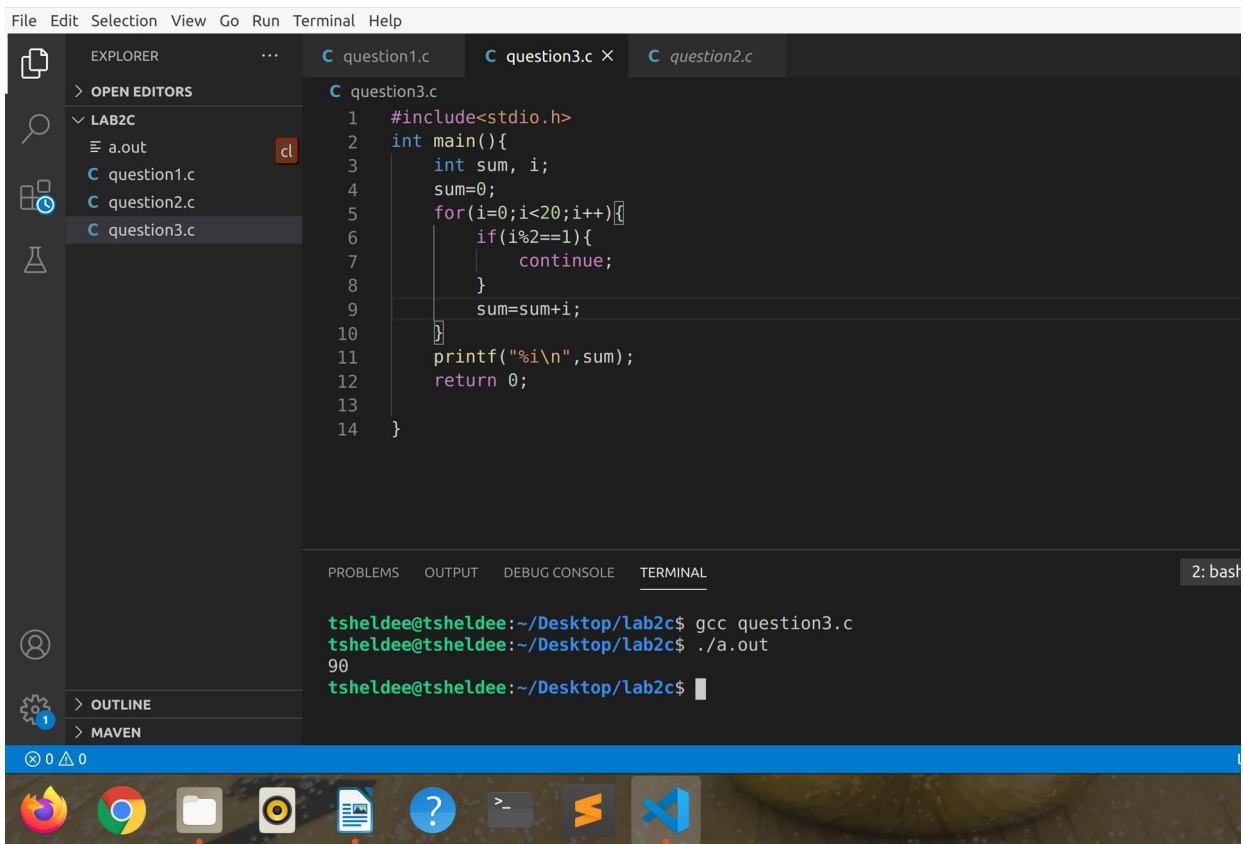


```
1 #include<stdio.h>
2 int main(){
3     int i, number, count;
4
5     printf("Prime number from 2 to 200: ");
6     for(int number=2; number<=200; number++){
7         count = 0;
8         for(int i=2; i<=number/2; i++){
9             if(number%i==0){
10                 count++;
11                 break;
12             }
13         }
14         if(count==0 && number !=1){
15             printf(" %d ", number);
16         }
17     }
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 2: bash

```
tsheldee@tsheldee:~/Desktop/lab2c$ gcc question2.c
tsheldee@tsheldee:~/Desktop/lab2c$ ./a.out
Prime number from 2 to 200: 2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89
97 101 103 107 109 113 127 131 137 139 149 151 157 163 167 173 179 181 191 193 197 199 tsheldee@ts
heldee:~/Desktop/lab2c$
```

Question 3



The image shows a Visual Studio Code editor window with three tabs: question1.c, question3.c (active), and question2.c. The Explorer sidebar on the left shows a project named LAB2C containing files a.out, question1.c, question2.c, and question3.c. The active file, question3.c, contains the following C code:

```
1  #include<stdio.h>
2  int main(){
3      int sum, i;
4      sum=0;
5      for(i=0;i<20;i++){
6          if(i%2==1){
7              continue;
8          }
9          sum=sum+i;
10     }
11     printf("%i\n",sum);
12     return 0;
13 }
14 }
```

The bottom of the window features a terminal panel with the following output:

```
tsheldee@tsheldee:~/Desktop/lab2c$ gcc question3.c
tsheldee@tsheldee:~/Desktop/lab2c$ ./a.out
90
tsheldee@tsheldee:~/Desktop/lab2c$
```

The terminal title bar indicates it is a bash shell. The bottom of the screen shows a Linux desktop environment with various application icons in the taskbar.