

## Question1

### Syntax

```
#include<stdio.h>
```

```
int main(){
```

```
    float radius,area,length,height,breath;
```

```
    int choice;
```

```
    printf("1.To calculate the area of circle\n");
```

```
    printf("2.To calculate the area of rectangle\n");
```

```
    printf("3.To calculate the area of triangle\n");
```

```
    printf("Enter your choice to do operation:");
```

```
    scanf("%d",&choice);
```

```
    switch(choice){
```

```
        case 1:
```

```
            //this case will calculate the area of circle
```

```
            printf("Enter the radius to find the area of circle:");
```

```
            scanf("%f",&radius);
```

```
            area = 3.14*radius*radius;
```

```
            printf("The area of circle is = %f\n",area);
```

```
            break;
```

```
        case 2:
```

```
            //case to calculate the area of rectangle
```

```
            printf("Enter the length first and followed by breath second;");
```

```
            scanf("%f",&length);
```

```
            scanf("%f",&breath);
```

```
            area=length*breath;
```

```
            printf("The area of rectangle is=%f\n",area);
```

```
            break;
```

```
        case 3:
```

```
            //calculate the area of triangle
```

```
            printf("enter the height of triangle: ");
```

```
scanf("%f", &height);
printf("enter the breath of triangle: ");
scanf("%f", &breath);
area = 0.5*breath*height;
printf("The area of triangle = %f\n",area);
break;
```

default:

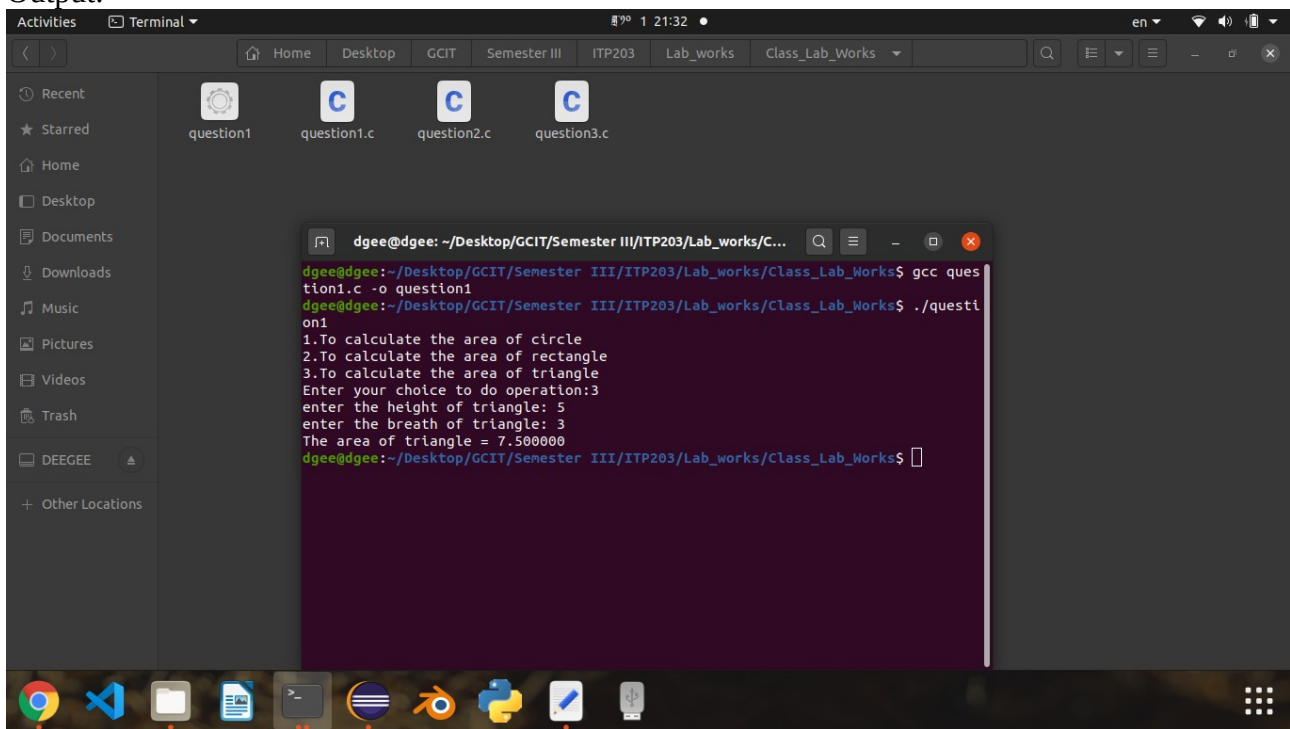
```
printf("invalid\n");
```

```
}
```

```
return 0;
```

```
}
```

Output:



The screenshot shows a Linux desktop with a file manager and a terminal. The file manager displays four files: question1, question1.c, question2.c, and question3.c. The terminal window is open, showing the execution of a C program. The program prompts the user to choose an operation (1 for circle, 2 for rectangle, 3 for triangle). The user enters 3. The program then prompts for the height and breath of the triangle. The user enters 5 for height and 3 for breath. The program calculates the area of the triangle as 7.500000 and displays the result.

```
dgee@dgee: ~/Desktop/GCIT/Semester III/ITP203/Lab_works/C...
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$ gcc ques
tion1.c -o question1
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$ ./questi
on1
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:3
enter the height of triangle: 5
enter the breath of triangle: 3
The area of triangle = 7.500000
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$
```

## Question2

### Syntax

```
#include<stdio.h>
```

```
int main(){
```

```
    int i, number, count;
```

```
    printf("Prime number from 2 to 200: ");
```

```
    for(int number=2; number<=200; number++){
```

```
        count = 0;
```

```
        for(int i=2; i<=number/2; i++){
```

```
            if(number%i==0){
```

```
                count++;
```

```
                break;
```

```
            }
```

```
        }
```

```
        if(count==0 && number !=1){
```

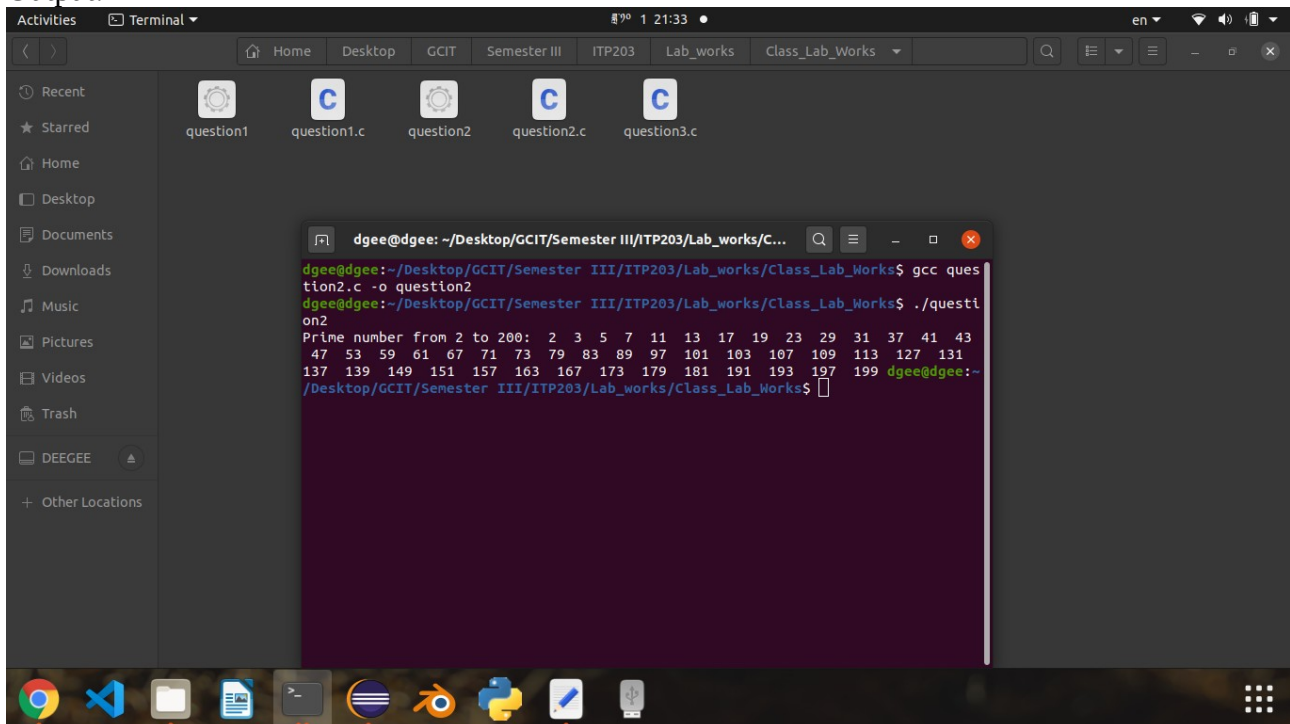
```
            printf(" %d ", number);
```

```
        }
```

```
    }
```

```
}
```

### Output:



```
dgee@dgee: ~/Desktop/GCIT/Semester III/ITP203/Lab_works/C...
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$ gcc ques
tion2.c -o question2
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$ ./questi
on2
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 dgee@dgee:~/
Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$
```

### Question3

Syntax:

```
#include<stdio.h>
```

```
int main(){
```

```
    int sum, i;
```

```
    sum=0;
```

```
    for(i=0;i<20;i++){
```

```
        if(i%2==1){
```

```
            continue;
```

```
        }
```

```
        sum=sum+i;
```

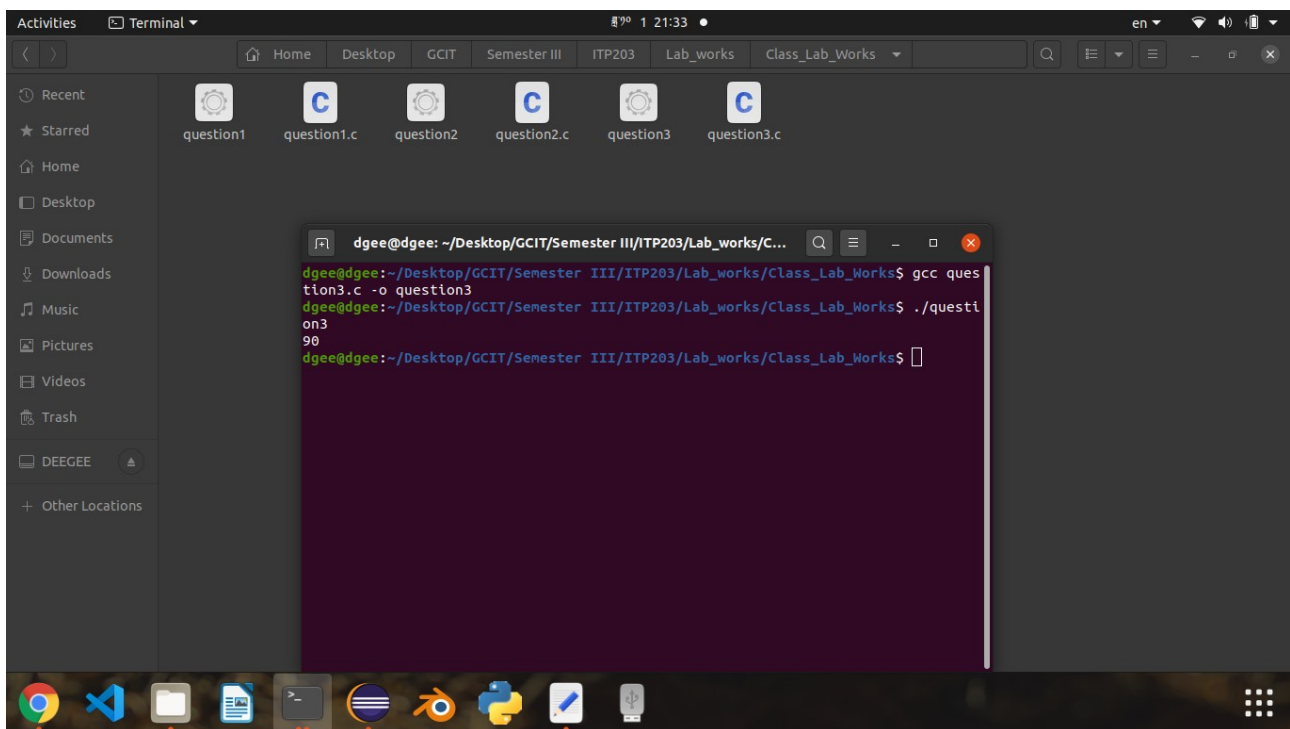
```
    }
```

```
    printf("%i\n",sum);
```

```
    return 0;
```

```
}
```

Output:



The screenshot shows a Linux desktop with a dark theme. A terminal window is open, displaying the following commands and output:

```
dgee@dgee: ~/Desktop/GCIT/Semester III/ITP203/Lab_works/C...
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$ gcc ques
tion3.c -o question3
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$ ./questi
on3
90
dgee@dgee:~/Desktop/GCIT/Semester III/ITP203/Lab_works/Class_Lab_Works$
```

The terminal window is titled "dgee@dgee: ~/Desktop/GCIT/Semester III/ITP203/Lab\_works/C...". The desktop background is dark, and the taskbar at the bottom shows various application icons including a web browser, a file manager, and a terminal.

THANK YOU