CLASS WORK SUBMISSION

SUBMITTED BY:
SAMTEN WANGMO
12190073
GROUP ‘A’

Question 1

WAP to display the area of circle, area of rectangle and area of triangle using switch statement.

q1.c q2.c q3.c

```c
#include <stdio.h>
int main()
{
    float radius, length, breadth;
    float base, height, area;
    int select;
    printf("Enter any number\n");
    printf("1. To find area of circle\n");
    printf("2. To find area of rectangle\n");
    printf("3. To find area of triangle\n");

    scanf("%d", &select);
    switch(select)
    {
        case 1:
        printf("Enter the raduis of the circle\n");
        scanf("%f", &radius);

        area = 3.14*radius*radius;
        printf("Area of Circle:\t%f\n", area);

            break;
        case 2:
        printf("Enter the length and breadth of a Rectangle\n");
        scanf("%f %f", &length, &breadth);

        area = length * breadth;

        printf("Area of Rectangle:\t%f\n", area);

            break;
        case 3:
            printf("Enter base and height of a triangle\n");
            scanf("%f %f", &base, &height);

            area = (1.0/2) * base * height;
```

```c
            break;
        case 3:
            printf("Enter base and height of a triangle\n");
            scanf("%f %f", &base, &height);

            area = (1.0/2) * base * height;

            printf("Area of Triangle:\t%f\n", area);

            break;
        default:
            printf("Invalid selection!\n");
    }
}
```

OUTPUT:

```
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ javac q1.java
javac: file not found: q1.java
Usage: javac <options> <source files>
use -help for a list of possible options
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ gcc q1.c -o q
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ ./q
Enter any number
1. To find area of circle
2. To find area of rectangle
3. To find area of triangle
3
Enter base and height of a triangle
6
7
Area of Triangle:       21.000000
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ gcc q1.c -o q
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ ./q
Enter any number
1. To find area of circle
2. To find area of rectangle
3. To find area of triangle
2
Enter the length and breadth of a Rectangle
6
7
Area of Rectangle:      42.000000
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ gcc q1.c -o q
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ ./q
Enter any number
1. To find area of circle
2. To find area of rectangle
3. To find area of triangle
1
Enter the raduis of the circle
3
Area of Circle: 28.260000
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ gcc q2.c -o q
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ ./q
```

Question 2

WAP to print all the prime numbers from 2 to 200 using break statement.

q1.c q2.c q3.c

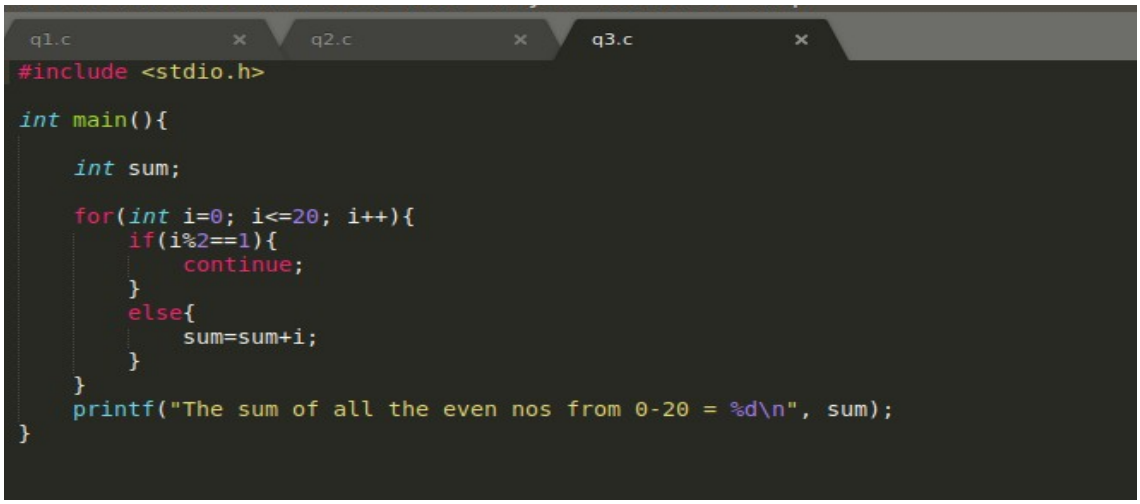
```c
#include <stdio.h>

int main()
{
  int i, Number, count;

  printf(" Prime Number from 2 to 200 are: \n");
  for(Number = 2; Number <= 200; Number++)
  {
    count = 0;
    for (i = 2; i <= Number/2; i++)
    {
    if(Number%i == 0)
    {
        count++;
      break;
  }
    }
    if(count == 0 && Number != 1 )
    {
  printf(" %d ", Number);
    }
  }
  return 0;
}
```

OUTPUT

```
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ gcc q2.c -o q
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$ ./q
 Prime Number from 2 to 200 are:
 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 user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$
user@lab127-OptiPlex-3040:~/Desktop/12190073/WAP$
```

Question 3

WAP to add and display the sum of all the even number starting from 0 to 20. Use continue statement.



OUTPUT