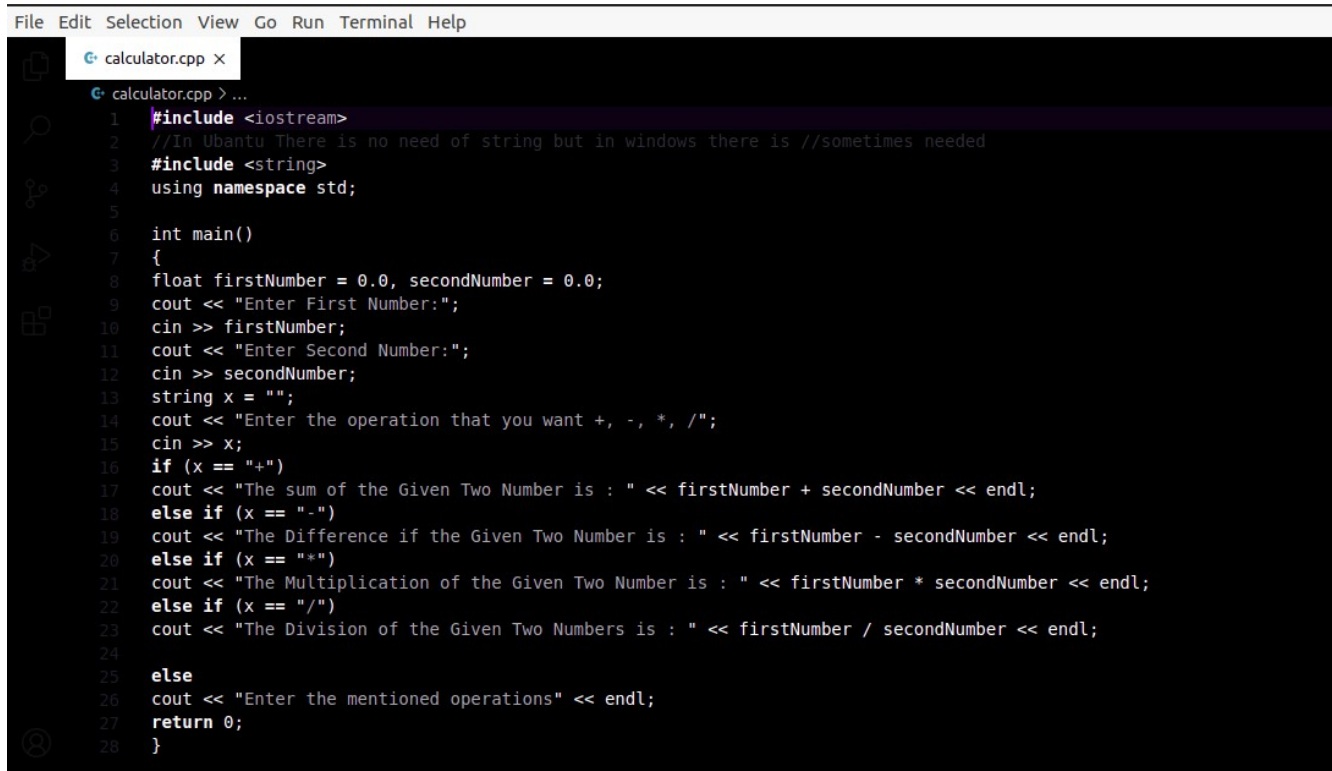


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Section	:	BS(CS) – A
Assignment	:	OOP
Teacher Name	:	Khuram Shahzad

LAB TASK NO 1 (if-else calculator)

SCREEN SHOT OF THE CODE



```
File Edit Selection View Go Run Terminal Help
calculator.cpp x
calculator.cpp > ...
1  #include <iostream>
2  //In Ubuntu There is no need of string but in windows there is //sometimes needed
3  #include <string>
4  using namespace std;
5
6  int main()
7  {
8  float firstNumber = 0.0, secondNumber = 0.0;
9  cout << "Enter First Number:";
10 cin >> firstNumber;
11 cout << "Enter Second Number:";
12 cin >> secondNumber;
13 string x = "";
14 cout << "Enter the operation that you want +, -, *, /";
15 cin >> x;
16 if (x == "+")
17 cout << "The sum of the Given Two Number is : " << firstNumber + secondNumber << endl;
18 else if (x == "-")
19 cout << "The Difference if the Given Two Number is : " << firstNumber - secondNumber << endl;
20 else if (x == "**")
21 cout << "The Multiplication of the Given Two Number is : " << firstNumber * secondNumber << endl;
22 else if (x == "/")
23 cout << "The Division of the Given Two Numbers is : " << firstNumber / secondNumber << endl;
24
25 else
26 cout << "Enter the mentioned operations" << endl;
27 return 0;
28 }
```

OUTPUT SCREEN SHOT

```
calculator.cpp - Assignments_of_lab - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
ASSIGNMENTS_OF_LAB
calculator
even_odd1st
even_odd1st.cpp
switch_calculator
switch_calculator.cpp
Task02
Task02.cpp
Task02(company_salary).cpp
tempCodeRunnerFile.cpp

TERMINAL
2: Code
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ calculator.cpp -o calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"calculator
Enter First Number:4
Enter Second Number:4
Enter the operation that you want +, -, *, /+
The sum of the Given Two Number is : 8
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ calculator.cpp -o calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"calculator
Enter First Number:4
Enter Second Number:4
Enter the operation that you want +, -, *, /-
The Difference if the Given Two Number is : 0
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ calculator.cpp -o calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"calculator
Enter First Number:4
Enter Second Number:4
Enter the operation that you want +, -, *, /*
The Multiplication of the Given Two Number is : 16
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ calculator.cpp -o calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"calculator
Enter First Number:4
Enter Second Number:4
Enter the operation that you want +, -, *, //
The Division of the Given Two Numbers is : 1
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ calculator.cpp -o calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"calculator
Enter First Number:4
Enter Second Number:4
Enter the operation that you want +, -, *, /9
Enter the mentioned operations
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$
```

LAB TASK NO 1 (Using switches)

CODE SCREEN SHOT

```
switch_calculator.cpp > main()
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6  float firstNumber = 0.0, secondNumber = 0.0;
7  cout << "Enter the First Number = ";
8  cin >> firstNumber;
9  cout << "Enter the Second Number = ";
10 cin >> secondNumber;
11 char operation;
12 cout << "Enter the operation You want to perform +, -, *, /:";
13 cin >> operation;
14 switch(operation)
15 {
16 case '+':
17 cout << "The Sum of the Given Two Number is = " << firstNumber + secondNumber << endl;
18 break;
19 case '-':
20 cout << "The Difference of the Given Two Numbers is = " << firstNumber - secondNumber << endl;
21 break;
22 case '*':
23 cout << "The Multiply of the Given Two Numbers is = " << firstNumber * secondNumber << endl;
24 break;
25 case '/':
26 cout << "The Division of the Given Two Numbers is = " << firstNumber / secondNumber << endl;
27 break;
28 default:
29 cout << "Please Enter the operation that are Mentioned" << endl;
30 }
31 return 0;}
```

OUTPUT SCREEN SHOT

switch_calculator.cpp - Assignments_of_lab - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

ASSIGNMENTS_OF_LAB

- calculator
- calculator.cpp
- even_odd1st
- even_odd1st.cpp
- switch_calculator
- switch_calculator.cpp
- Task02
- Task02.cpp
- Task02(company_salary).cpp
- tempCodeRunnerFile.cpp

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

2: Code

```
cd "/home/namiirr/SEMESTERno2/Assignments of lab/" && g++ switch_calculator.cpp -o switch_calculator && "/home/namiirr/SEMESTERno2/Assignments of lab/"switch_calculator
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ switch_calculator.cpp -o switch_calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"switch_calculator
Enter the First Number = 4
Enter the Second Number = 4
Enter the operation You want to perform +, -, *, /:+
The Sum of the Given Two Number is = 8
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ switch_calculator.cpp -o switch_calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"switch_calculator
Enter the First Number = 4
Enter the Second Number = 4
Enter the operation You want to perform +, -, *, /:-
The Difference of the Given Two Numbers is = 0
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ switch_calculator.cpp -o switch_calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"switch_calculator
Enter the First Number = 4
Enter the Second Number = 4
Enter the operation You want to perform +, -, *, /:*
The Multiply of the Given Two Numbers is = 16
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ switch_calculator.cpp -o switch_calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"switch_calculator
Enter the First Number = 4
Enter the Second Number = 4
Enter the operation You want to perform +, -, *, /:/
The Division of the Given Two Numbers is = 1
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ switch_calculator.cpp -o switch_calculator && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"switch_calculator
Enter the First Number = 4
Enter the Second Number = 4
Enter the operation You want to perform +, -, *, /:4
Please Enter the operation that are Mentioned
```

TASK NO 2 (Company Employees)

CODE SCREEN SHOT

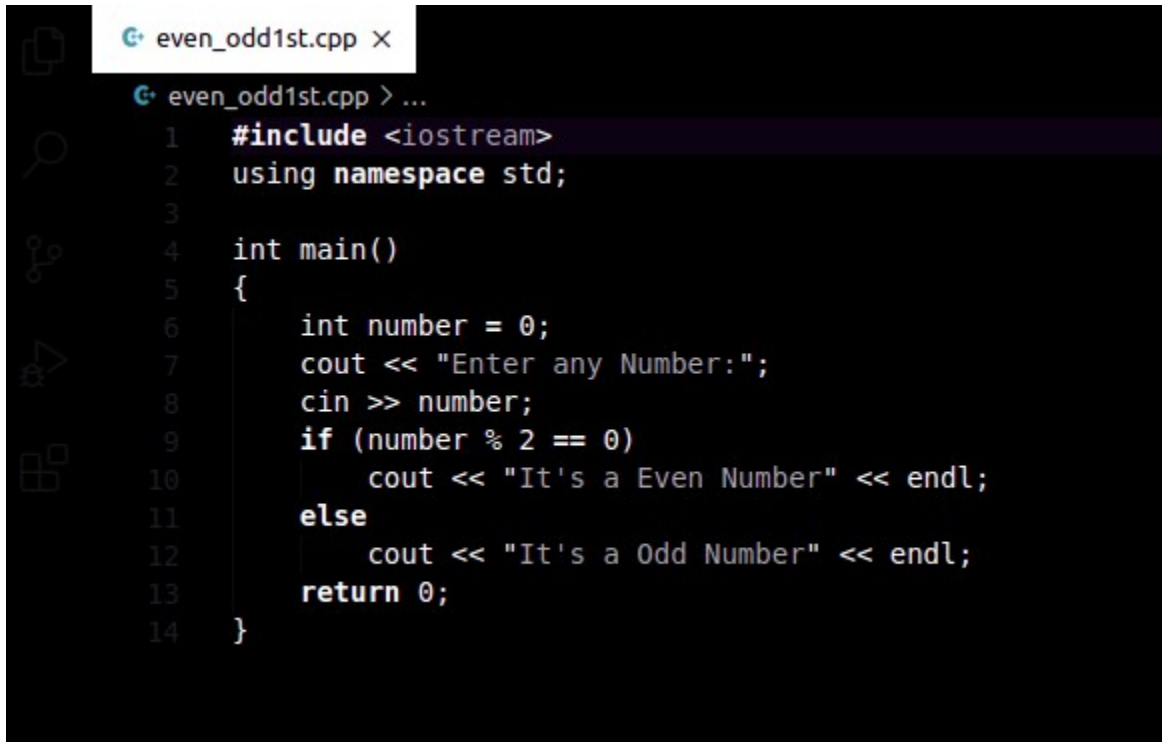
```
Task02.cpp > ...
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6  int employeeSalary = 0;
7  float newSalary = 0.0, deductAmount = 0.0;
8  cout << "Enter the Employee Salary = ";
9  cin >> employeeSalary;
10 if (employeeSalary < 10000)
11 {
12     deductAmount = 0;
13     newSalary = employeeSalary - deductAmount;
14 }
15 else if (employeeSalary >= 10000 && employeeSalary < 20000)
16 {
17     deductAmount = 1000;
18     newSalary = employeeSalary - deductAmount;
19 }
20 else if (employeeSalary >= 20000)
21 {
22     deductAmount = employeeSalary * 0.07;
23     newSalary = employeeSalary - deductAmount;
24 }
25 cout << "The Salary of the Employee is = " << newSalary << endl;
26 return 0;
27 }
```

OUTPUT SCREEN SHOT

```
Task02.cpp - Assignments_of_lab - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
ASSIGNMENTS_OF_LAB
calculator
calculator.cpp
even_odd1st
even_odd1st.cpp
switch_calculator
switch_calculator.cpp
Task02
Task02.cpp
Task02(company_salary).cpp
tempCodeRunnerFile.cpp
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
2: Code
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ Task02.cpp -o Task02 && "/home/namiirr/SEMESTERno2/Assignments_of_lab/Task02
Enter the Employee Salary = 20000
The Salary of the Employee is = 18600
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ Task02.cpp -o Task02 && "/home/namiirr/SEMESTERno2/Assignments_of_lab/Task02
Enter the Employee Salary = 9000
The Salary of the Employee is = 9000
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ Task02.cpp -o Task02 && "/home/namiirr/SEMESTERno2/Assignments_of_lab/Task02
Enter the Employee Salary = 15000
The Salary of the Employee is = 14000
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$
```

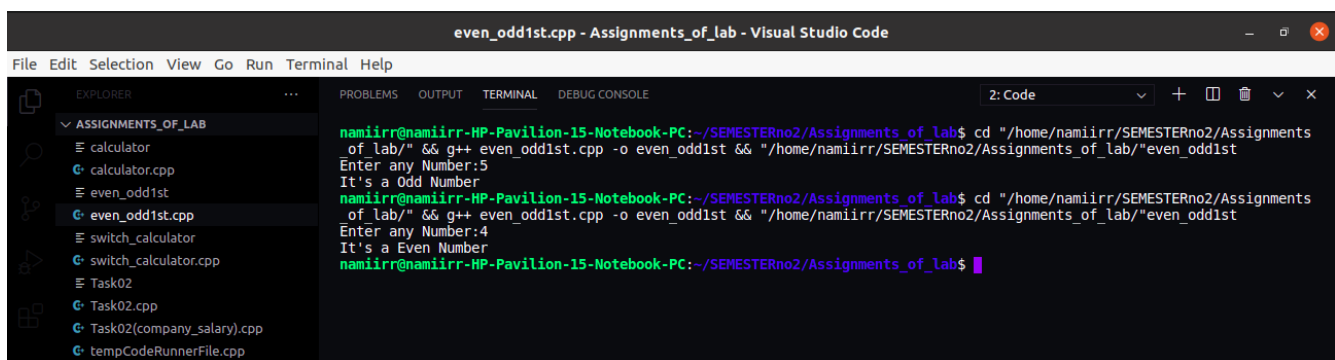
TASK NO 3 (Even_odd)

CODE SCREEN SHOT



```
1  #include <iostream>
2  using namespace std;
3
4  int main()
5  {
6      int number = 0;
7      cout << "Enter any Number:";
8      cin >> number;
9      if (number % 2 == 0)
10         cout << "It's a Even Number" << endl;
11     else
12         cout << "It's a Odd Number" << endl;
13     return 0;
14 }
```

OUTPUT SCREEN SHOT



```
even_odd1st.cpp - Assignments_of_lab - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
  ASSIGNMENTS_OF_LAB
    calculator
    calculator.cpp
    even_odd1st
    even_odd1st.cpp
    switch_calculator
    switch_calculator.cpp
    Task02
    Task02.cpp
    Task02(company_salary).cpp
    tempCodeRunnerFile.cpp
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
2: Code
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ even_odd1st.cpp -o even_odd1st && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"even_odd1st
Enter any Number:5
It's a Odd Number
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$ cd "/home/namiirr/SEMESTERno2/Assignments_of_lab/" && g++ even_odd1st.cpp -o even_odd1st && "/home/namiirr/SEMESTERno2/Assignments_of_lab/"even_odd1st
Enter any Number:4
It's a Even Number
namiirr@namiirr-HP-Pavilion-15-Notebook-PC:~/SEMESTERno2/Assignments_of_lab$
```