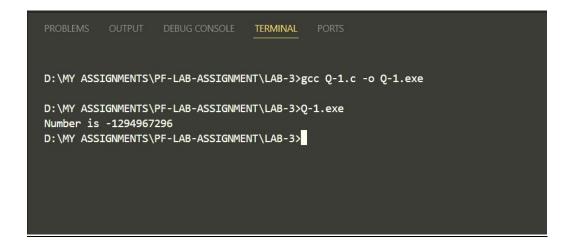
## **PF-LAB-3-ASSIGNMENTS**

## <u>Q-1</u>



Ans: Because integer datatype can only store value up to 2147483647, & output is greater than that.

```
C Q-2.c > ② main()
1  #include <stdio.h>
2  int main() {
3     int a, b, c;
4     printf("Enter num1:");
5     scanf("%d", &a);
6     printf("\nEnter num2:");
7     scanf("%d",&b);
8     c=a;
9     a=b;
10     b=c;
11     printf("Number1 is:%d\nNumber2 is:%d",a ,b);
12     return 0;
13 }
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>gcc Q-2.c -o Q-2.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>Q-2.exe
Enter num1:150

Enter num2:20
Number1 is:20
Number2 is:150
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>
```

```
C Q-3.c > ② main()
1  #include <stdio.h>
2  int main () {
3     float taxRate, salary, tax, income;
4     printf("Enter taxrate:");
5     scanf("%f", &taxRate);
6     printf("Enter Salary:");
7     scanf("%f", &salary);
8     tax = (taxRate * salary) / 100;
9     income = salary - tax;
10     printf("Tax is:%.2f \nYour income is:%.2f", tax, income);
11     return 0;
12 }
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>gcc Q-3.c -o Q-3.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>Q-3.exe

Enter taxrate:7
Enter Salary:450000
Tax is:31500.00
Your income is:418500.00
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>
```

```
c Q-4.c > © main()
1  #include <stdio.h>
2  int main() {
3    int dist = 1207, fuelPrice1 = 118, fuelPrice2 = 123, average, fuelConsumed1Way, totalFuelConsumed,
4    totalCost, cost_forward, cost_return;
5    printf("Enter vehicle's fuel average:");
6    scanf("%d", &average);
7    if (average <= 0) {
8         printf("Fuel average should be positive. Enter again.");
9    }
10
11    fuelConsumed1Way = dist / average;
12    cost_forward = fuelConsumed1Way * fuelPrice1;
13    cost_return = fuelConsumed1Way * fuelPrice2;
14    totalFuelConsumed = 2 * fuelConsumed1Way;
15    totalCost = cost_forward + cost_return;
16
17    printf("Total Fuel Cost = %d \nTotal Fuel Consumed = %d", totalCost, totalFuelConsumed);
18</pre>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>gcc Q-4.c -o Q-4.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>Q-4.exe

Enter vehicle's fuel average:15

Total Fuel Cost = 19280

Total Fuel Consumed = 160

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>
```

## <u>Q-5</u>

```
C Q-5.c > © main()
1  #include <stdio.h>
2  int main() {
3     int principal, interestRate, timePeriod, interest;
4     printf("Enter Principal:"); //Principal must be between 100 Rs. to 1,000,000 Rs
5     scanf("%d", &principal);
6     printf("\nEnter Rate of Interest:"); //Interest rate must be between 5% to 10%
7     scanf("%d", &interestRate);
8     printf("\nEnter Time Period:"); //Time period must be between 1 to 10 years
9     scanf("%d", &timePeriod);
10
11     interest = (principal * interestRate * timePeriod) / 100;
12
13     printf("Total Interest is:%d", interest);
14     return 0;
15 }
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>gcc Q-5.c -o Q-5.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>Q-5.exe
Enter Principal:350000

Enter Rate of Interest:14

Enter Time Period:2
Total Interest is:98000
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>gcc Q-6.c -o Q-6.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>Q-6.exe

Slope = 1.000

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-3>
```