

## LAB Task #1

Q # 1: Write a program that inputs age in years and displays age in months and days.

Solution:

```
#include <iostream>

using namespace std;

int main()
{
    cout << "Muhammad Salman\nSAP Id:72373" << endl;

    int age, months, days;

    cout << "Enter your age in years:" << endl;

    cin >> age;

    months = age * 12;

    cout << "Your age in months is:\n" << months << endl;

    days = age * 365;

    cout << "Your age in days is:\n" << days << endl;

    return 0;
}
```



The screenshot shows the Microsoft Visual Studio Debug Console window. The output of the program is displayed as follows:

```
Muhammad Salman
SAP Id:72373
Enter your age in years:
20
Your age in months is:
240
Your age in days is:
7300
```

Q # 2: Write a program that inputs 4 numbers and calculates the sum, average, and product of all the numbers.

Solution:

```
#include<iostream>

using namespace std;

int main()
{
    cout << "Muhammmad Salman\nSAP Id:72373" << endl;

    int a, b, c, d,sum,multiply,average;

    cout << "enter your first number " << endl;

    cin >> a;

    cout << "enter your second number " << endl;

    cin >> b;

    cout << "enter your third number " << endl;

    cin >> c;

    cout << "enter your fourth number " << endl;

    cin >> d;

    sum = a + b + c + d;

    cout << "the sum of four numbers is:\n" << sum << endl;

    multiply = a * b * c * d;

    cout << "the product of four numbers is:\n" << multiply << endl;

    average = sum / 4;

    cout << "the average of four numbers is:\n" << average << endl;

    return 0;

}
```



Microsoft Visual Studio Debug Console



Muhammmad Salman

SAP Id:72373

enter your first number

2

enter your second number

3

enter your third number

4

enter your fourth number

5

the sum of four numbers is:

14

the product of four numbers is:

120

the average of four numbers is:

3

Q # 3: Write a program that inputs miles from the user and convert miles into kilometres. One mile is equal to 1.609 kilometer.

Solution:

```
#include<iostream>

using namespace std;

int main()
{
    cout << "Muhammad Salman\nSAP Id:72373" << endl;

    int miles, km;

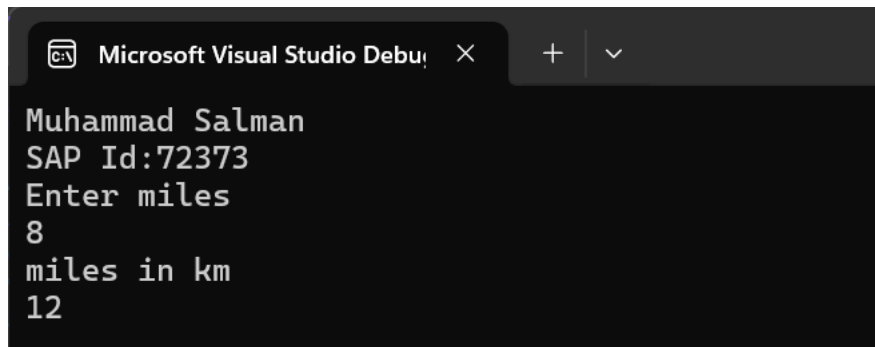
    cout << "Enter miles" << endl;

    cin >> miles;

    miles = miles * 1.609;

    cout << "miles in km\n" << miles << endl;

    return 0;
}
```

A screenshot of the Microsoft Visual Studio Debug Console. The window title is "Microsoft Visual Studio Debug Console" with a close button (X) and a dropdown arrow. The output text is as follows:

```
Muhammad Salman
SAP Id:72373
Enter miles
8
miles in km
12
```

Q # 4: Write a program that inputs total number of students in a class and fee per student. It displays total fee collected from the class.

Solution:

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    cout << "Muhammad Salman\nSAP Id:72373" << endl;
```

```
    int students, feeperstudent, totalfee;
```

```
    cout << "Enter total number of students: ";
```

```
    cin >> students;
```

```
    cout << "Enter fee per student: ";
```

```
    cin >> feeperstudent;
```

```
    totalfee = students * feeperstudent;
```

```
    cout << "Total fee collected from the class = " << totalfee << endl;
```

```
    return 0;
```

```
}
```

*ctrl+alt+l*



Microsoft Visual Studio Debu



Muhammad Salman

SAP Id:72373

Enter total number of students: 60

Enter fee per student: 500

Total fee collected from the class = 30000