

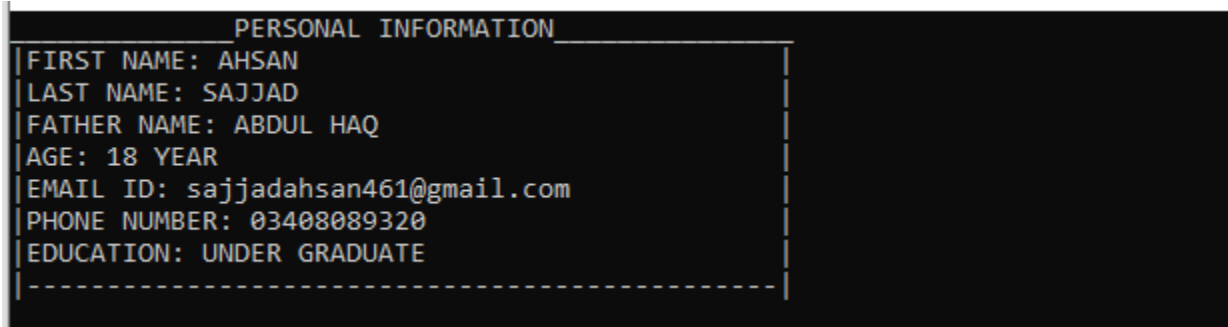
[Lab no.01]**[Computer Programming]
[Variable And Arithmetic Operations]**

Task 01: Write a program to display your personal information.

Solution:

```
{  
    Console.WriteLine("_____ PERSONAL INFORMATION _____");  
    Console.WriteLine("|FIRST NAME: AHSAN \t\t\t\t|");  
    Console.WriteLine("|LAST NAME: SAJJAD\t\t\t\t|");  
    Console.WriteLine("|FATHER NAME: ABDUL HAQ\t\t\t\t|");  
    Console.WriteLine("|AGE: 18 YEAR\t\t\t\t\t|");  
    Console.WriteLine("|EMAIL ID: sajjadahsan461@gmail.com\t\t|");  
    Console.WriteLine("|PHONE NUMBER: 03408089320 \t\t\t\t|");  
    Console.WriteLine("|EDUCATION: UNDER GRADUATE \t\t\t\t|");  
    Console.WriteLine("|-----|");  
}
```

Output:



```
_____ PERSONAL INFORMATION _____  
|FIRST NAME: AHSAN  
|LAST NAME: SAJJAD  
|FATHER NAME: ABDUL HAQ  
|AGE: 18 YEAR  
|EMAIL ID: sajjadahsan461@gmail.com  
|PHONE NUMBER: 03408089320  
|EDUCATION: UNDER GRADUATE  
|-----|
```

Task 02: Write a program to display your inter/ matric marks sheet.

Solution:

```
namespace marksheet  
{  
    class Program  
    {  
        static void Main(string[] args)  
  
        {  
            int R , num1, num2, num3, num4, num5, num6, num7, num8;  
            string n, fn;  
            float T, p;  
            Console.Write("enter your roll number : ");  
            R = Convert.ToInt32(Console.ReadLine());  
            Console.Write("enter your name : ");  
            n= Console.ReadLine();  
            Console.Write("enter your father name : ");  
            fn = Console.ReadLine();  
        }  
    }  
}
```

[Lab no.01]**[Computer Programming]
[Variable And Arithmetic Operations]**

```
Console.Write("marks of english : ");
num1 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of urdu : ");
num2 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of islamiat : ");
num3 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of pst : ");
num4 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of maths : ");
num5 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of physics : ");
num6 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of chemistry : ");
num7 = Convert.ToInt32(Console.ReadLine());
Console.Write("marks of biology : ");
num8 = Convert.ToInt32(Console.ReadLine());

T = num1 + num2 + num3 + num4 + num5 + num6 + num7 + num8;
p = (T * 100) / 1100.0f;
Console.WriteLine("\t\t\t");
Console.WriteLine("***** MY RESULT*****");
Console.WriteLine("enter your roll no: {0}", R);
Console.WriteLine("Enter your name: {0}", n);
Console.WriteLine("enter your father name: {0}",fn);
Console.WriteLine("marks of english: {0}" ,num1);
Console.WriteLine("marks of urdu: {0}" ,num2);
Console.WriteLine("marks of islamiat: {0}", num3);
Console.WriteLine("marks of pst: {0}", num4);
Console.WriteLine("marks of maths: {0}", num5);
Console.WriteLine("marks of physics: {0}", num6);
Console.WriteLine("marks of chemistry: {0}", num7);
Console.WriteLine("marks of biology: {0}",num8);
Console.WriteLine("\tobtained marks: {0}",T);
Console.WriteLine("\tpercentage: {0}",p);
Console.WriteLine("*****");
}
```

Output:

[Lab no.01]

[Computer Programming] [Variable And Arithmetic Operations]

```
Microsoft Visual Studio Debug Console

enter your roll number : 132627
enter your name : AHSAN SAJJAD
enter your father name : ABDUL HAQ
marks of english : 116
marks of urdu : 133
marks of islamiat : 092
marks of pst : 097
marks of maths : 144
marks of physics : 118
marks of chemistry : 136
marks of biology : 138

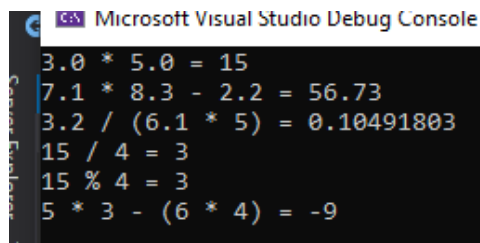
***** MY RESULT*****
enter your roll no: 132627
Enter your name: AHSAN SAJJAD
enter your father name: ABDUL HAQ
marks of english: 116
marks of urdu: 133
marks of islamiat: 92
marks of pst: 97
marks of maths: 144
marks of physics: 118
marks of chemistry: 136
marks of biology: 138
obtained marks: 974
percentage: 88.545456
*****
```

Task 03: Write a C# program that displays the results of the expressions.

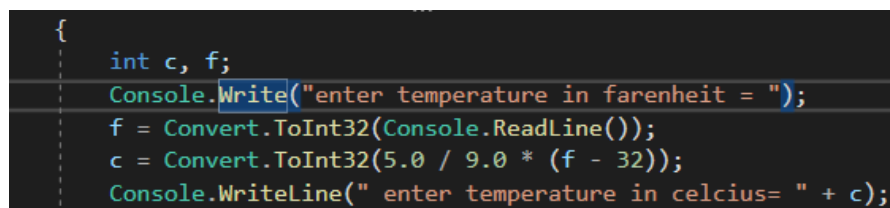
Solution:

```
{
    float b1, b2, b3, b4, b5, b6;
    b1 = 3.0f * 5.0f;
    b2 = 7.1f * 8.3f - 2.2f;
    b3 = 3.2f / (6.1f * 5);
    b4 = 15 / 4;
    b5 = 15 % 4;
    b6 = 5 * 3 - (6 * 4);

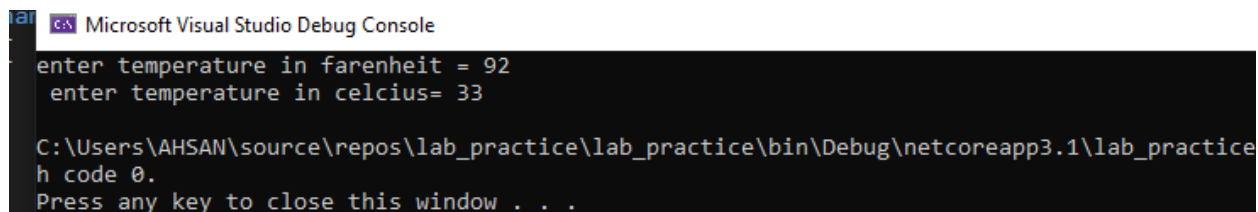
    Console.WriteLine("3.0 * 5.0 = " + b1);
    Console.WriteLine("7.1 * 8.3 - 2.2 = " + b2);
    Console.WriteLine("3.2 / (6.1 * 5) = " + b3);
    Console.WriteLine("15 / 4 = " + b4);
    Console.WriteLine("15 % 4 = " + b5);
    Console.WriteLine("5 * 3 - (6 * 4) = " + b6);
}
```

Output:

```
Microsoft Visual Studio Debug Console
3.0 * 5.0 = 15
7.1 * 8.3 - 2.2 = 56.73
3.2 / (6.1 * 5) = 0.10491803
15 / 4 = 3
15 % 4 = 3
5 * 3 - (6 * 4) = -9
```

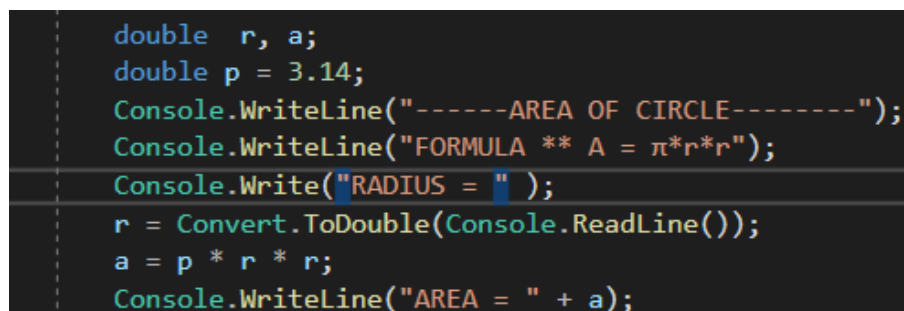
Task 04: Calculate the temperature in Celsius using integer values.**Solution:**

```
{
    int c, f;
    Console.Write("enter temperature in farenheit = ");
    f = Convert.ToInt32(Console.ReadLine());
    c = Convert.ToInt32(5.0 / 9.0 * (f - 32));
    Console.WriteLine(" enter temperature in celcius= " + c);
}
```

Output:

```
Microsoft Visual Studio Debug Console
enter temperature in farenheit = 92
enter temperature in celcius= 33

C:\Users\AHSAN\source\repos\lab_practice\lab_practice\bin\Debug\netcoreapp3.1\lab_practice
h code 0.
Press any key to close this window . . .
```

Task 05: Calculate the area of Circle.**Solution:**

```
double r, a;
double p = 3.14;
Console.WriteLine("-----AREA OF CIRCLE-----");
Console.WriteLine("FORMULA ** A = π*r*r");
Console.Write("RADIUS = ");
r = Convert.ToDouble(Console.ReadLine());
a = p * r * r;
Console.WriteLine("AREA = " + a);
```

Output:

```
Microsoft Visual Studio Debug Console
-----AREA OF CIRCLE-----
FORMULA ** A =  $\pi$ *r*r
RADIUS = 4
AREA = 50.24
C:\Users\AHSAN\source\repos\lab_practice\lab_practice\bin\Debug\netcoreapp3.1\la
```

Task 06: Display the result of the expression: $((a + b) * (c * e * d) - e) / f$.

Solution:

```
{
    int a, b, c, d, e, f, R;
    Console.Write("enter 1st no: ");
    a = Convert.ToInt32(Console.ReadLine());
    Console.Write("enter 2nd no: ");
    b = Convert.ToInt32(Console.ReadLine());
    Console.Write("enter 3rd no: ");
    c = Convert.ToInt32(Console.ReadLine());
    Console.Write("enter 4th no: ");
    d = Convert.ToInt32(Console.ReadLine());
    Console.Write("enter 5th no: ");
    e = Convert.ToInt32(Console.ReadLine());
    Console.Write("enter 6th no: ");
    f = Convert.ToInt32(Console.ReadLine());
    R = (((a + b) * (c * e * d)) - e) / f;
    Console.WriteLine("EQUATION = " + R);
}
```

Output:

```
Server Explorer Tool
-----
enter 1st no: 4
enter 2nd no: 5
enter 3rd no: 6
enter 4th no: 3
enter 5th no: 8
enter 6th no: 2
EQUATION = 644
```

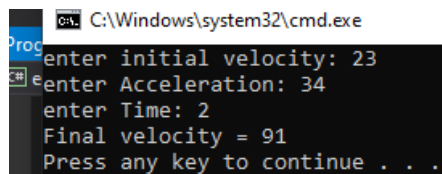
[Lab no.01]**[Computer Programming]
[Variable And Arithmetic Operations]**

Task 07: Write a program and print the output of first equation of the motion. For values take input from user. ($v_f = v_i + at$).

Solution:

```
double vi,a,t,vf ;
Console.Write("enter initial velocity: ");
vi = Convert.ToDouble(Console.ReadLine());
Console.Write("enter Acceleration: ");
a = Convert.ToDouble(Console.ReadLine());
Console.Write("enter Time: ");
t = Convert.ToDouble(Console.ReadLine());
vf = vi + a * t;
Console.WriteLine("Final velocity = " + vf);
```

Output:



```
C:\Windows\system32\cmd.exe
Program enter initial velocity: 23
C# e enter Acceleration: 34
enter Time: 2
Final velocity = 91
Press any key to continue . . .
```