LAB TASK

Lab Task 1:

1- Mention the output for the following program

```c
#include <stdio.h>
void main()
{
  int a=100;
  if(a>10)
  printf("Shahid Afridi");
  else if (a>20)
  printf("Shoaib Akhter");
  else if (a>30)
  printf("Kamran Akmal");
}
```

Source code:

Task mein error araha hai 2 line mein aghar (void) ki bjaye (int) hoga tu program run karaha hai.
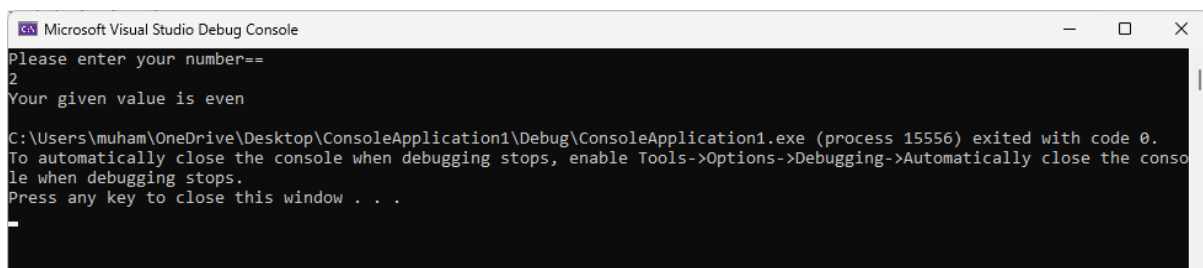
Lab Task 2:

2- Write a program that takes a number as input from user and checks whether the number is even or odd

Source code:

```cpp
#include <iostream>
using namespace std;
int main()
{
    int Givennumber, Result;
    cout << "Please enter your number==" << endl;
    cin >> Givennumber;
    if (Result = Givennumber % 2 == 0) {
        cout << "Your given value is even" << endl;
    }
    else {
        cout << "Your given value is odd" << endl;
    }
    return 0;
}
```

Output:

Lab Task 3:

3- Write a program that declares and initializes two number with your roll no and your friend roll no and displays the greater of the two
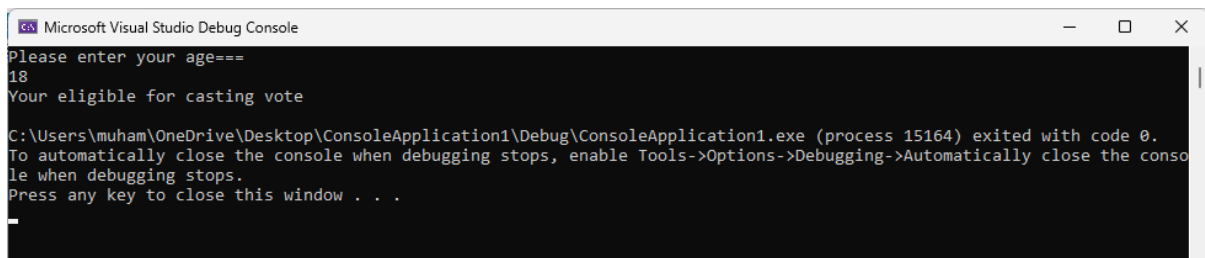
Source code:

Output:

Lab Task 4:

4- Write a program to read the age of a candidate and determine whether it is eligible for casting his/her own vote

Source code:

```cpp
#include <iostream>
using namespace std;
int main()
{
    int age, result;
    cout << "Please enter your age===" << endl;
    cin >> age;
    if (age > 17) {
        cout << "Your eligible for casting vote" << endl;
    }
    else {
        cout << "Sorry,you are not eligible for casting vote" << endl;
    }
    return 0;
}
```

Output:

```
Microsoft Visual Studio Debug Console                                    —   □   X
Please enter your age===
18
Your eligible for casting vote

C:\Users\muham\OneDrive\Desktop\ConsoleApplication1\Debug\ConsoleApplication1.exe (process 15164) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
```
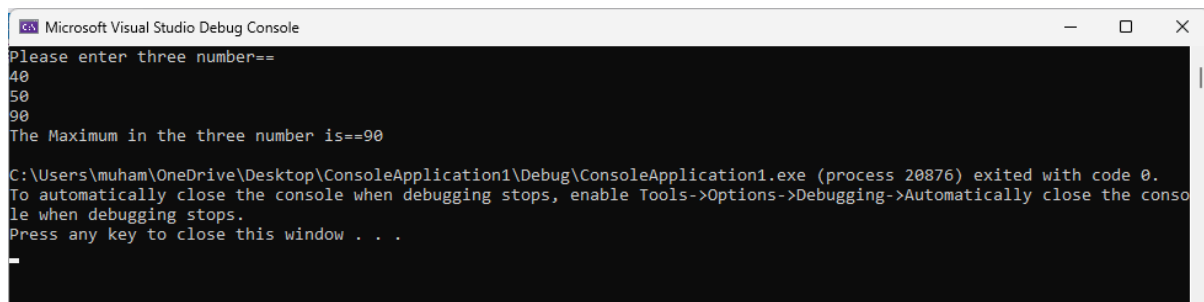
Lab Task 5:

5- Write a program to find the maximum between three numbers by using the if-else statement

Source code:

```cpp
#include <iostream>
using namespace std;
int main()
{
    int num1, num2, num3;
    cout << "Please enter three number==" << endl;
    cin >> num1 >> num2 >> num3;
    if (num1 >= num2 && num1 >= num3) {
        cout << "The Maximum in the three number is==" << num1 << endl;
    }
    if (num2 >= num1 && num2 >= num3) {
        cout << "The Maximum in the three number is==" << num2 << endl;
    }
    if (num3 >= num1 && num3 >= num2) {
        cout << "The Maximum in the three number is==" << num3 << endl;
    }
    return 0;
}
```

Output:

Lab Task 6:

6- Write the program to take a value from the user as input marks of five subjects Physics ,Chemistry, Biology, Mathematics and Computer Calculate percentage and grade

Source code:

```cpp
#include <iostream>
using namespace std;
int main()
{
    int Physics, Chemistry, Biology, Mathematics, Computer, Total,
Percentage;
    cout << "Enter your marks of Physics" << endl;
    cin >> Physics;
    cout << "Enter your marks of Chemistry" << endl;
    cin >> Chemistry;
    cout << "Enter your marks of Biology" << endl;
    cin >> Biology;
    cout << "Enter your marks of Mathematics" << endl;
    cin >> Mathematics;
    cout << "Enter your marks of Computer" << endl;
    cin >> Computer;
    Total = Physics + Chemistry + Biology + Mathematics + Computer;
    cout << "Total marks===" << Total << endl;
    Percentage = (Total * 100) / 500;
    cout << "Percentage===" << Percentage << endl;
    if (Percentage >= 90)
        cout << "GRADE A" << endl;
    else if (Percentage >= 80)
        cout << "GRADE B" << endl;
    else if (Percentage >= 70)
        cout << "GRADE C" << endl;
    else if (Percentage >= 60)
        cout << "GRADE D" << endl;
    else if (Percentage >= 40)
        cout << "GRADE E" << endl;
    else if (Percentage < 40)
        cout << "GRADE F" << endl;
}
```

Output:

```
Microsoft Visual Studio Debug Console

Enter your marks of Physics
80
Enter your marks of Chemistry
90
Enter your marks of Biology
70
Enter your marks of Mathematics
85
Enter your marks of Computer
78
Total marks===403
Percentage===80
GRADE B

C:\Users\muham\OneDrive\Desktop\ConsoleApplication1\Debug\ConsoleApplication1.exe (process 11144) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso
le when debugging stops.
Press any key to close this window . . .
```