

LAB:5

Lab Task 1:

Write a C++ program that takes an integer input (1-12) representing a month and prints the month's name using a switch statement.

Sample Output:

Enter month number (1-12): 7

Output: July

```
#include<iostream>

using namespace std;

int main(){

int month;

cout<<"Enter month number(1-12):";

cin>>month;

switch(month){

case 1:

    cout<<"Output:January";

    break;

case 2:

    cout<<"Output:Feburary";

    break;

case 3:

    cout<<"Output:March";

    break;

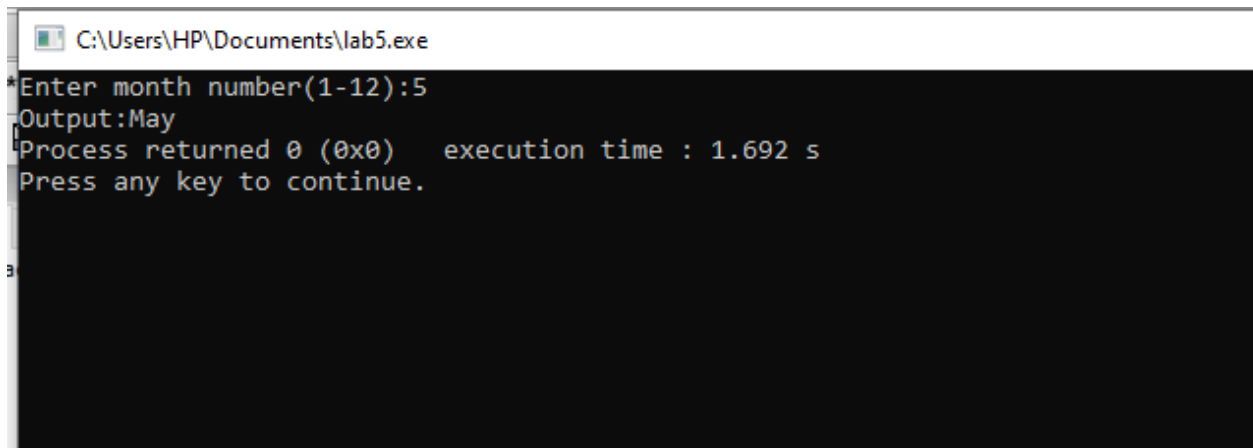
case 4:
```

```
        break;
case 5:
    cout<<"Output:May";
    break;
case 6:
    cout<<"Output:June";
    break;
case 7:
    cout<<"Output:July";
    break;
case 8:
    cout<<"Output:August";
    break;
case 9:
    cout<<"Output:September";
    break;
case 10:
    cout<<"Output:October";
    break;
case 11:
    cout<<"Output:November";
    break;
case 12:
    cout<<"Output:December";
    break;
default:
```

```
    cout<<"Error!Enter valid data.";
    break;

}

return 0;
}
```



```
C:\Users\HP\Documents\lab5.exe
*Enter month number(1-12):5
Output:May
Process returned 0 (0x0)   execution time : 1.692 s
Press any key to continue.
```

Lab Task 2:

The task is to create a C++ program that acts as a simple calculator based on user menu selection. The program should display a menu with options for addition, subtraction, multiplication, and division. Upon receiving user input for their choice, the program should prompt the user to enter two numbers. Depending on the selected operation, use a switch statement to perform the arithmetic operation on these numbers and display the result. Ensure the program handles division by zero gracefully.

Sample Output:

1. Addition
2. Subtraction
3. Multiplication
4. Division

Enter your choice: 2

Enter two numbers: 10 5

Result of subtraction: 5

```
#include<iostream>
using namespace std;
int main(){
int option;
double num1,num2;
cout<<"1. Addition\n";
cout<<"2. Subtraction\n";
cout<<"3. Multiplication\n";
cout<<"4. Division\n";
cout<<"Enter your choice:";
cin>>option;
cout<<"Enter two numbers:";
cin>>num1>>num2;

switch(option){
case 1:
    cout<<"Result of Addition:"<<num1+num2;
    break;
case 2:
    cout<<"Result of Subtraction:"<<num1-num2;
    break;
case 3:
    cout<<"Result of Multiplication:"<<num1*num2;
    break;
case 4:
    if(num2!=0)
        cout<<"Result of Division:"<<num1/num2;
    else{
        cout<<"Result of Division :Infinity";
    }
    break;
default:
    cout<<"Error!Enter valid data.";
```

```
    break;

    }
    return 0;
}
```