Lab manual 3

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```cpp
#include <iostream>
using namespace std;
int main()        {
            char operation;
            int num1,num2;
            cout<<"Enter two numbers."<<endl;
            cin>>num1>>num2;
            cout<<"Choose an operation to be performed on the numbers."<<endl;
            cin>>operation;
            switch  (operation)       {
                    case '+':
                            cout<<num1<<" + "<<num2<<" = "<< num1+num2;
                    break;
                    case '-':
                            cout<<num1<<" - "<<num2<<" = "<< num1-num2;
                    break;
                    case '*':
                            cout<<num1<<" * "<<num2<<" = "<< num1*num2;
                    break;
                    case '/':
                            cout<<num1<<" / "<<num2<<" = "<< num1/num2;
                    break;
                    default:
                                    cout<<"Invalid operation.";
            }
        end of task 1
```

```
Enter two numbers.
7
9
Choose an operation to be performed on the numbers.
+
7 + 9 = 16
-------------------------------
Process exited after 13.76 seconds with return value 0
Press any key to continue . . . _
```

```
Enter two numbers.
8
8
Choose an operation to be performed on the numbers.
/
8 / 8 = 1
-------------------------------
Process exited after 20.5 seconds with return value 0
Press any key to continue . . . _
```

```
Enter two numbers.
7
4
Choose an operation to be performed on the numbers.
)
Invalid operation.
-------------------------------
Process exited after 17.26 seconds with return value 0
Press any key to continue . . .
```

```cpp
#include <iostream>

using namespace std;

int main()      {


        int month_no;

        cout<<"Enter the month number."<<endl;

        cin>>month_no;

        switch(month_no)      {
```

```cpp
case 1 :
        cout<<"Your month is january which has 31 days.";
break;
case 2 :
        cout<<"Your month is february which has 28 days.";
break;
case 3 :
        cout<<"Your month is march which has 31 days.";
break;
case 4 :
        cout<<"Your month is april which has 30 days.";
break;
case 5 :
        cout<<"Your month is may which has 31 days.";
break;
case 6 :
        cout<<"Your month is june which has 30 days.";
break;
case 7 :
        cout<<"Your month is july which has 31 days.";
break;
case 8 :
        cout<<"Your month is august which has 31 days.";
break;
case 9 :
        cout<<"Your month is september which has 30 days.";
break;
case 10 :
        cout<<"Your month is october which has 31 days.";
```

```cpp
                break;
            case 11 :
                    cout<<"Your month is november which has 30 days.";
            break;
            case 12 :
                    cout<<"Your month is december which has 31 days.";
            break;
            default:
                    cout<<"Invalid input.";
                    break;
        }
    }
```

end of task 2

```
Enter the month number.
6
Your month is june which has 30 days.
-------------------------------
Process exited after 2.39 seconds with return value 0
Press any key to continue . . .
```

```
Enter the month number.
14
Invalid input.
-------------------------------
Process exited after 4.134 seconds with return value 0
Press any key to continue . . .
```

```cpp
#include <iostream>
using namespace std;
int main()    {

        int a,b;
```

```cpp
cout<<"Enter two numbers, A and B respectively."<<endl;

cin>>a>>b;

if (a!=b){

        if (a>b)  {

                cout<<"A is the greater number with a value of "<<a<<endl;

        }

        else if (a<b)      {

                cout<<"B is the greater number with a value of "<<b<<endl;

        }

}

else {

        cout<<"Both numbrs are equal."<<endl;

}

}
```
End of task 3

```
Enter two numbers, A and B respectively.
5
6
B is the greater number with a value of 6

-------------------------------
Process exited after 3.968 seconds with return value 0
Press any key to continue . . . _
```

```
Enter two numbers, A and B respectively.
3
7
B is the greater number with a value of 7

-------------------------------
Process exited after 1.804 seconds with return value 0
Press any key to continue . . .
```

```
Enter two numbers, A and B respectively.
88
88
Both numbrs are equal.

-------------------------------
Process exited after 1.197 seconds with return value 0
Press any key to continue . . . _
```

```cpp
#include <iostream>

using namespace std;

int main()        {


        int n,m;

        cout<<"Enter a value for m."<<endl;

        cin>>m;

        if (m==0)        {

                n=0;

                cout<<"For this value of m, the value of n is "<<n<<endl;

        }
```

```cpp
        else     {

                if (m>0){

                        n=1;

                        cout<<"For this value of m, the value of n is "<<n<<endl;

                }

                else     {

                        n=-1;

                        cout<<"For this value of m, the value of n is "<<n<<endl;

        }


}
}
```

End of task 4

```
Enter a value for m.
5
For this value of m, the value of n is 1

---------------------------------
Process exited after 1.126 seconds with return value 0
Press any key to continue . . . ▪
```

```
Enter a value for m.
0
For this value of m, the value of n is 0

---------------------------------
Process exited after 0.7779 seconds with return value 0
Press any key to continue . . .
```

```
Enter a value for m.
-67
For this value of m, the value of n is -1

---------------------------------
Process exited after 2.941 seconds with return value 0
Press any key to continue . . . ▪
```