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Reg# BSE203003

Subject: OOP LAB
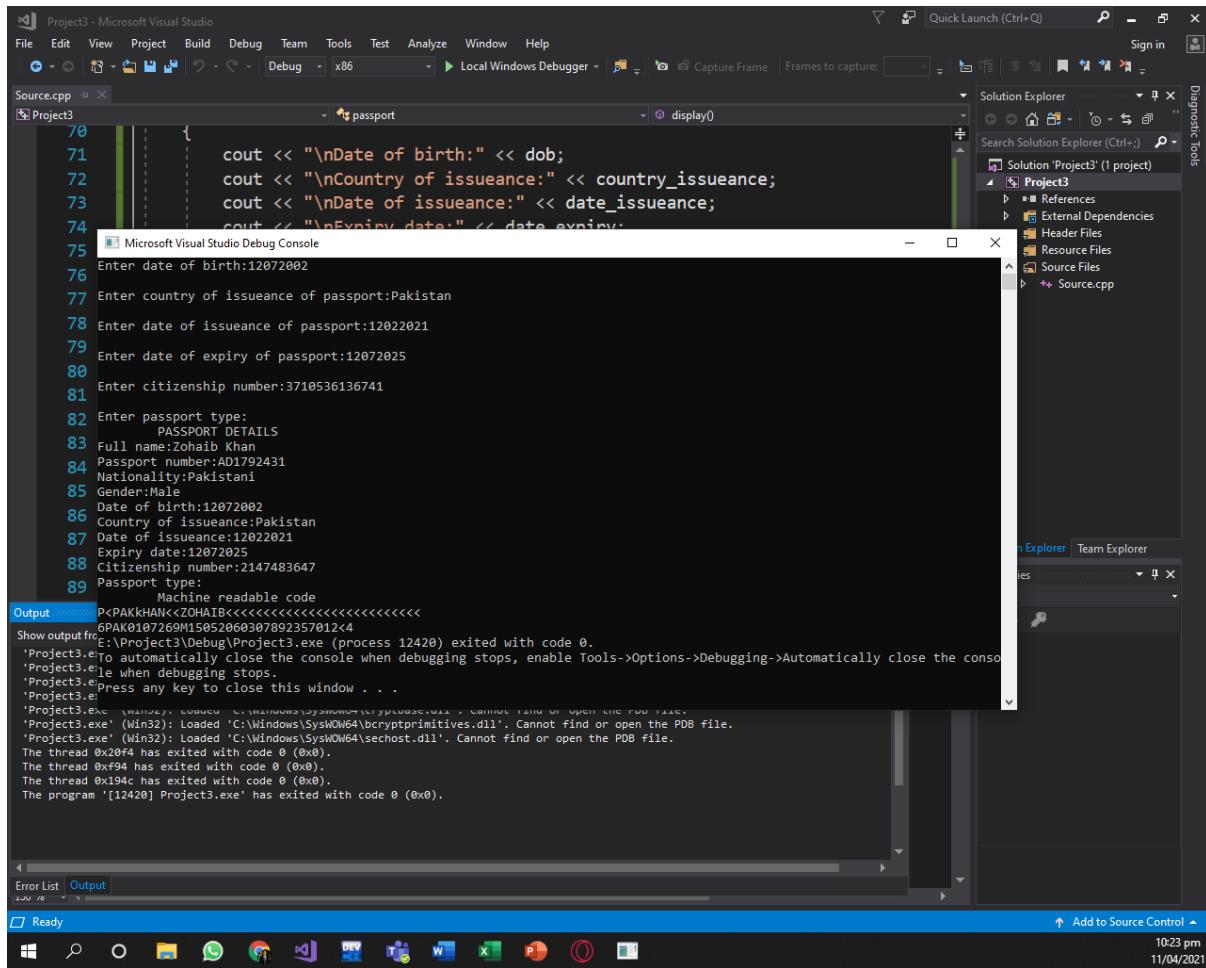
LAB#4

Instructor: Sir Qaisar Manzoor

Date:11-4-2021

Practice Task: 1

```cpp
#include <iostream>
#include <string>
using namespace std;
class passport
{
        string first_name;
        string last_name;
        string full_name;
        string passport_number;
        string nationality;
        string gender;
        string dob;
        string country_issueance;
        string     date_issueance;
        string date_expiry;
        int citizenship_number;
        string passport_type;
public:
        void set_dob()
        {
                cout << "\nEnter date of birth:";
                cin >> dob;
        }
        void set_country_issueance()
        {
                cout << "\nEnter country of issueance of passport:";
                cin >> country_issueance;
        }
        void set_date_issueance()
        {
                cout << "\nEnter date of issueance of passport:";
                cin >> date_issueance;
        }
        void set_expiry()
        {
                cout << "\nEnter date of expiry of passport:";
                cin >> date_expiry;
        }
        void set_passport_type()
        {
                cout << "\nEnter passport type:";
                cin >> passport_type;
        }
        passport()
        {
                set_dob();
                set_country_issueance();
                set_date_issueance();
                set_expiry();
                cout << "\nEnter citizenship number:";
                cin >> citizenship_number;
                set_passport_type();
        }
        passport(string a, string b)
        {
                first_name = a;
                last_name = b;
                full_name = first_name + last_name;
        }
        passport(string e, string c, string d)
        {
```

```cpp
                passport_number = e;
                gender = d;
                nationality = c;
        }



        void display()
        {
                cout << "\nDate of birth:" << dob;
                cout << "\nCountry of issueance:" << country_issueance;
                cout << "\nDate of issueance:" << date_issueance;
                cout << "\nExpiry date:" << date_expiry;
                cout << "\nCitizenship number:" << citizenship_number;
                cout << "\nPassport type:" << passport_type;
                cout << "\n\tMachine readable code ";
                cout << "\nP<PAKkHAN<<ZOHAIB<<<<<<<<<<<<<<<<<<<<<<<<<<";
                cout << endl << passport_number << "6PAK0107269M15052060307892357012<4";
        }
        void display2()
        {
                cout << "\n\tPASSPORT DETAILS";
                cout << "\nFull name:" << full_name;
        }
        void display3()
        {
                cout << "\nPassport number:" << passport_number;
                cout << "\nNationality:" << nationality;
                cout << "\nGender:" << gender;
        }
};
int main()
{
        passport p1;
        passport p2("Zohaib", " Khan");
        passport p3("AD1792431", "Pakistani", "Male");
        p2.display2();
        p3.display3();
        p1.display();
}
```

Practice Task: 2

```cpp
#include <iostream>
#include <string>
using namespace std;
class passport
{
    string first_name;
    string last_name;
    string full_name;
    string passport_number;
    string nationality;
    string gender;
    string dob;
    string country_issueance;
    string     date_issueance;
    string date_expiry;
    int citizenship_number;
    string passport_type;
public:
    void set_dob()
    {
        cout << "\nEnter date of birth:";
        cin >> dob;
    }
    void set_country_issueance()
    {
        cout << "\nEnter country of issueance of passport:";
        cin >> country_issueance;
```

```cpp
		}
		void set_date_issueance()
		{
				cout << "\nEnter date of issueance of passport:";
				cin >> date_issueance;
		}
		void set_expiry()
		{
				cout << "\nEnter date of expiry of passport:";
				cin >> date_expiry;
		}
		void set_passport_type()
		{
				cout << "\nEnter passport type:";
				cin >> passport_type;
		}
		passport()
		{
				set_dob();
				set_country_issueance();
				set_date_issueance();
				set_expiry();
				cout << "\nEnter citizenship number:";
				cin >> citizenship_number;
				set_passport_type();
		}
		passport(string a, string b)
		{
				first_name = a;
				last_name = b;
				full_name = first_name + last_name;
		}
		passport(string e, string c, string d)
		{
				passport_number = e;
				gender = d;
				nationality = c;
		}


		void display()
		{
				cout << "\nDate of birth:" << dob;
				cout << "\nCountry of issueance:" << country_issueance;
				cout << "\nDate of issueance:" << date_issueance;
				cout << "\nExpiry date:" << date_expiry;
				cout << "\nCitizenship number:" << citizenship_number;
				cout << "\nPassport type:" << passport_type;
				cout << "\n\tMachine readable code ";
				cout << "\nP<PAK"<<last_name<<first_name<<"<<<<<<<<<<<<<<<<<<<<<<<<<<<";
				cout << endl << passport_number << "6PAK0107269M1505206030 7892357012<4";
		}
		void display2()
		{
				cout << "\n\tPASSPORT DETAILS";
				cout << "\nFull name:" << full_name;
		}
		void display3()
		{
				cout << "\nPassport number:" << passport_number;
				cout << "\nNationality:" << nationality;
```

```cpp
            cout << "\nGender:" << gender;
        }
};
int main()
{
        passport p1;
        passport p2("Zohaib", " Khan");
        passport p3("AD1792431", "Pakistani", "Male");
        p2.display2();
        p3.display3();
        p1.display();
        passport p4(p1);
        passport p5("Ali", "khan");
        passport p6("ASU2352613", "Pakistani", "MALE");
        p5.display2();
        p6.display3();

        p4.display();
}
```