## **OBJECT ORIENTED PROGRAMMING LAB**



## Lab-task#8

Submitted BY:

Najam Ali Abass

(p20-0471)

Submitted to:

MR. MUHAMMAD ABDULLAH ORAKZAI

(Computer Science Instructor)

DEPARTMENT OF SOFTWARE ENGINEERING FAST NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCE, PESHAWAR

Session 2020-2024

Question#1: Define a class batsman with the following specifications: Note for user understanding purposes you should write comment with each line of code?

```
you should write comment with each line of
code?
Source-code:
#include < iostream >
using namespace std;
class batsman
private:
/* data */
int bcode;
char bname[20];
int inning,notout,runs;
int batavg;
void calcavg(){
if(inning!=notout)
batavg=runs/(inning-notout);
else
batavg=0;
public:
void readdata();
void displaydata();
};
void batsman::readdata()
```

```
cout<<"Enter Batsman code:";
cin>>bcode;
cout<<"Enter batsman name:";
cin.ignore();
cin.getline(bname,20);
cout<<"Enter innings:";
cin>>inning;
cout<<"Enter notout:";
cin>>notout;
cout<<"Enter runs;";
cin>>runs;
calcavg();
cout<<"==================<<endl;
void batsman::displaydata(){
cout<<"Batsman code"<<bcode<<endl;
cout<<"Batsman name"<<bname<<endl;
cout<<"INNINGS"<<inning<<endl;
cout<<"Not out "<<notout<<endl;
cout<<"Runs "<<runs<<endl;
cout<<"Batting Average"<<batavg<<endl;
int main(){
batsman mybatsman;
mybatsman.readdata();
mybatsman.displaydata();
```

```
return 0;
}
```

output#1:-

**Question#2:-**Define a class student with the following specification.

SOURCE-CODE

```
#include <string>
#include <iomanip>
using namespace std;
class Student
public:
// Default constructor
Student() {
s1 = 0;
s2 = 0;
s3 = 0;
// Parameterized constructor
Student(int no, string name, float math,
float eng, float sci) {
regono = no;
sname = name;
s1 = math;
s2 = eng;
s3 = sci;
// Member functions
float calculate(){
total = s1 + s2 + s3;
return total;
```

```
void putData();
// destructor.
~Student() {};
private:
int regono;
string sname;
float s1;
float s2:
float s3;
float total;
void Student::putData() {
cout << "Student number: " << regono <<
endl;
cout << "Student name: " << sname <<
endl<<endl;
cout << "s1 mathe: " <<setw(6)<< fixed
<< setprecision(2) << s1 << endl;
cout << "s2 English: " <<setw(6)<< fixed
<< setprecision(2) <<s2 << endl;
cout << "s3 Science: " <<setw(6)<< fixed
<< setprecision(2) <<s3 << endl;
cout << "total: " <<setw(6)<< fixed <<
setprecision(2) <<calculate() << endl;
```

```
cout << "==++==++==++==+
+==++==+<<endl;
int main() {
Student st1(123, "Najam Ali Abass", 93, 90,
94.95); //Parameterized constructor
st1.putData();
return 0;
OUTPUT2:-
  [Running] cd "/home/janny/Documents/c plus plu
 Student number: 123
 Student name: Najam Ali Abass
  s1 mathe: 93.00
  s2 English: 90.00
  s3 Science: 94.95
           277.95
  total:
  ==++==++==++==++==++==
```

[Done] exited with code=0 in 0.636 seconds

