Object Oriented Programming

Lab task #8

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Submitted to Mr. Muhammad Abdullah (Computer Instructor)

Question #1

Code:

```
← Q1.cpp

       #include<cstring>
       using namespace std;
           int admno;
           char sname[20];
           float eng, math , science , total;
           float ctotal( float eng , float math , float science);
           void takedata(int a , char n[], float e , float m , float s );
           void showdata();
       void student::takedata(int a , char n[] , float e , float m , float s )
           admno = a;
           for (i = 0; i < strlen(n); i++)
               sname[i] = n[i];
           sname[i] = '\0';
           eng = e;
           math = m;
```

```
float student::ctotal(float eng , float math , float science )
    total = eng + math + science;
                                      // calculating the total
    return total;
// displaying the values
void student::showdata()
    cout<<"Admission no is: "<<admno<<endl;</pre>
    cout<<"Student name is: "<<sname<<endl;</pre>
    cout<<"English marks: "<<eng<<endl;</pre>
    cout<<"Math marks: "<<math<<endl;</pre>
    cout<<"Science marks: "<<science<<endl;</pre>
    cout<<"Total marks are: "<<ctotal( eng , math , science )<<endl;</pre>
int main()
                     // creating object
    student s;
    s.takedata(12 , "Saad Ahmad", 12.1 , 12 , 34); // passing values
    s.showdata();
```

Output:

```
TERMINAL
          OUTPUT
                   PROBLEMS
                              DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\saada\Desktop\done\LabTask> cd "c:\Users\saada\Desktop\done\LabTask\Task 8"
PS C:\Users\saada\Desktop\done\LabTask\Task 8> & .\"Q1.exe"
Admission no is: 12
Student name is: Saad Ahmad
English marks: 12.1
Math marks: 12
Science marks: 34
Total marks are: 58.1
PS C:\Users\saada\Desktop\done\LabTask\Task 8>
```

Question #2

Code:

```
G Q2.cpp
  1 #include<iostream>
      using namespace std;
           int bcode;
           char bname[20];
           int inings, notout, runs;
           int batavg ;
           int calcavg(int inings , int notout , int runs);
           void readdata(int b , char n[] , int i , int no , int r );
           void displaydata();
       void batsman::readdata(int b , char n[] , int i , int no , int r )
           bcode = b;
           for (x = 0; x < sizeof(n); x++)
               bname[x] = n[x];
           bname[x] = '\0';
           inings = i;
           notout = no;
```

```
int batsman::calcavg(int inings , int notout , int runs)
    batavg = runs / (inings - notout);  // calculating batavg
    return batavg;
// displaying the values
void batsman::displaydata()
{
    cout<<"Batsman code is: "<<bcode<<endl;</pre>
    cout<<"Batsman name is: "<<bname<<endl;</pre>
    cout<<"Inings: "<<inings<<endl;</pre>
    cout<<"Not out: "<<notout<<endl;</pre>
    cout<<"Runs: "<<runs<<endl;</pre>
    cout<<"Batting average: "<<calcavg(inings ,notout ,runs)<<endl;</pre>
int main()
    batsman s;
                         // creating object
    s.readdata(12 , "Saad", 1134 , 145 , 34);
    s.displaydata();
```

Output:

```
TERMINAL
          OUTPUT
                   PROBLEMS
                              DEBUG CONSOLE
Windows PowerShell
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PS C:\Users\saada\Desktop\done\LabTask> cd "c:\Users\saada\Desktop\done\LabTask\Task 8"
PS C:\Users\saada\Desktop\done\LabTask\Task 8> & .\"Q2.exe"
Batsman code is: 12
Batsman name is: Saad
Inings: 1134
Not out: 145
Runs: 34
Batting average: 0
PS C:\Users\saada\Desktop\done\LabTask\Task 8>
```