```
*STEP 1 ;
/*************************************************************************************************
*****************/
/*1. Program Name:Vivek235_HW05_Program.sas
                                                                    */
/* Program Location: C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment05\Assignment\Vivek235_HW05_Program.sas          */
/* Date Created: 2/8/17
                                                                    */
/* Author: Vivek Kumar Gupta
                                                                    */
/* Purpose: This assignment will primarily utilize, but is not limited to, techniques covered in the
lectures 5 to 7.                                  */
/*************************************************************************************************
*****************/

*STEP 1 ;
*1.Create the necessary library references for data sources and destination and file references for output.
Turn off page numbering ;
libname ncaa  'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment05\SourceData' access=readonly;
filename pdfdev 'C:\Users\vigupta\OneDrive\Learning\DataScience\Statistics Texas A&M
University\657\Homework\Assignment05\Vivek235_HW05_Output.pdf';

/*Add neccessary ODS statements and change options as needed by the program*/
option nonumber;
ods pdf file= pdfdev startpage=no style =minimal;
ods escapechar= '^';

/* STEP 2. Write a complete PROC SQL step that will create a table, scoring04 as directed in substeps a,b,c
*/

proc sql ;
      create table work.scoring03 as
      select  player,team,region,ppg,avg(ppg) as avg_PPG_all label "Overall Average PPG"
      from ncaa.scholarship03
      where Seed_ not in (15, 16);

quit;

/*STEP 3.Use a SINGLE proc sql step to create the two reports shown in the output PDF posted on
```

```
eCampus. Please note ODS statements are declared at the beginning of the program*/

/* STEP 3a,b,c,d :First part of the report*/
proc sql  ;

title"Average Scholarships for State Schools";
select player, team
            ,sum(amt1,amt2,amt3,amt4,amt5,amt6,amt7,amt8,amt9,amt10) as Total_Scholarship label 'Total
Scholarship' format dollar10.
            ,max(amt1,amt2,amt3,amt4,amt5,amt6,amt7,amt8,amt9,amt10)as Max_Scholarship label 'Maximum
Scholarship' format dollar10.
            ,N(amt1,amt2,amt3,amt4,amt5,amt6,amt7,amt8,amt9,amt10)as Freq_Scholarship label 'Scholarships'
from ncaa.scholarship03
where find(team,'St',2)>0
group by player, team
having Freq_Scholarship>1
order by team,Total_Scholarship desc ;

/*Use the appropriate styles to align the text center to the report and rest the title for the second
report*/
ods pdf text="^{style [textalign=c]}^{newline 2}2003 NCAA Team Scoring Analysis" ;
title"2003 NCAA Team Scoring Analysis";

/* STEP 4a,b,c,d,e :Second part of the report based on scoring03 dataset*/
select team
            , count(*) as Players
            , avg(ppg) as avg_ppg label 'Average PPG' format 5.1
            , avg(ppg)/avg_PPG_all as overall_avg label 'Team vs. Overall' format percent8.1
            , case
                  when  avg(ppg) > avg_PPG_all then 'Above Avg.'
                  else 'Avg. or Below'
                  end as ppg_level label 'PPG Level'
from work.scoring03
group by team,avg_PPG_all
having players >= 5
order by avg_ppg desc;
quit;

/*House keeping*/
title;
option number;
```

```
/*Close the ODS destination*/
ods pdf close;
```