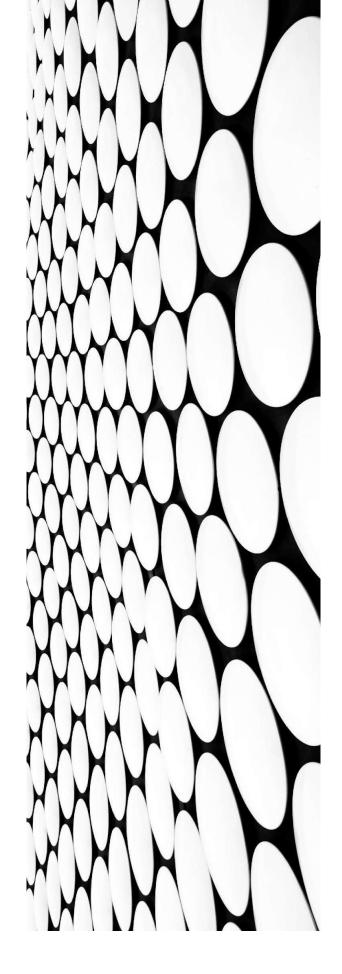


CO 101 MTE PROJECT

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TOURNAMENT POINTS TABLE SYSTEM TOPIC:

ABOUT OUR PROJECT:

We know tournaments like IPL where different teams compete with each other an In this mini-project, we are trying to create this points table by using simple logics wins, losses and points are displayed on the points table. functions, strings, etc.

FUNCTIONS USED

- void manage_points_table() : To arrange teams
- void print_points_table(int team, int rank) : To prints points tab
- void calculate_points(): To calculate wins ,loses and points

LOOPS

- for loop
- do while loop

OTHERS

Switch statement, goto statement, string functions.

LIBRARIES USED

#include<stdio.h>:- The stdio.h header defines three variable types,several macros, and various functions and performing input and output.

#include<stdlib.h>:- The stdlib.h header defines four variable types,several macros, various functions for performing general functions

#include<string.h>:- The string.h defines one variable type,one macro,and various functions for manipulating arrays of characters.

CODE:

PRE-PROCESSOR COMMAND

```
int m[9] = {0}, w[9] = {0}, I[9] = {0}, p[9] = {0};
char *teams[] = {"RR", "DC", "PBKS", "KKR", "GT", "LSG", "CSK
                                                               #include<string.h>
                                 #include<stdlib.h>
#include<stdio.h>
                                                                                                                                                                    "MI", "SRH"};
```

Printing The Points Table

```
%d\n", rank, m[team], w[team], l[team], p[team]);
                                          %d\n", rank, m[team], w[team], l[team], p[team]);
                                                       p% p%
                                          p%
                                          p%
                                                                                                  p%
                                                                                                  printf("%d.DC
                                        printf("%d.RR
switch (team)
                                                                     break;
                           case 0:
                                                                                    case 1:
```

Similarily other 8 cases will be formed to print other teams and their

MANAGING THE POINTS TABLE

```
print_points_table(x, rank);
                          for (int x = 0; x < 10; x++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      goto repeat; }}}
                                                                                                                                                                                                                                                                                                                                                                                                                                           big=big-5;
                                                                                if (p[x] == big)
                                                                                                                                                                                                                                                                           if (big==-5)
                                                                                                                                                                                                                                                                                                                                break;
                                                                                                                                                                rank++;
                                                                                                                                                                                                                     (6==x) Ji
                                                                                                                                                                                                                                                                                                                                                                                      else
repeat:
                                                                                                                                                        Matches Won Lose Points\n");
                                        printf("\n***********IPL-Indian Premier
League**********(n");
                                                                                    Points table \n\n");
                int count=0, rank = 1, big = 0;
                                                                                                                                                                                                                                                           for (int j = 0; j < 10; j++)
                                                                                                                                                                                                                                                                                                                                                                                                 if (count == 10)
                                                                                                                                                                                                    for (int i = 0; i < 10; i++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                      big=p[i];}}
                                                                                                                                                                                                                                                                                                                 if (p[i] >= p[j])
                                                                                                                                                                                                                                                                                                                                                                      count++;
                                                                                                                printf("Team
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  count=0;
                                                                                     printf("\n
```

Calculating Points

```
void calculate_points()
{
   int j, x, check, check1;
   char teamName[5];
   j = 5;
   for (int i = 0; i < 5; i++)
   {
        r:
        printf("%s Vs %s\n", teams[i], teams[i]);
        printf("Who won the match: ");
        scanf("%s",&teamName);
        check = strcmp(teamName, teams[i]);
        check1 = strcmp(teamName, teams[i]);
        check1 = strcmp(teamName, teams[i]);
        if (check == 0)
        {
            m[i] += 1;
            w[i] += 5;
            m[j] += 1;
            p[i] += 5;
            p[i] += 0;
            p[i] += 0;
```

Main Function

```
printf("Press 2 for show points table\n");
                                                                                                       printf("Press 1 for calculate points\n");
                                                                                                                                                                                                                                                                                                                                                                                                                printf("Invalid option try again\n");
                                                                                                                                                            printf("Choose any option: ");
                                                                                                                                          printf("Press 3 for exit\n");
                                                                                                                                                                                                                                                                                                        manage_points_table();
                                                                                                                                                                             scanf("%d", &choose);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      } while (choose != 3); }
                                                                                                                                                                                                                                                     calculate_points();
                                                                                                                                                                                               switch (choose)
                                                                                                                                                                                                                                                                                                                                                                                                                                   goto again;
break;}
                              int choose;
                                                                                                                                                                                                                                                                                                                                                            exit(0);
                                                                                                                                                                                                                                                                      break;
                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                               default:
void main()
                                                                                                                                                                                                                                                                                                                                           case 3:
                                                                                                                                                                                                                                                                                      case 2:
                                                                                                                                                                                                                                   case 1:
                                                                                        again:
```

Output

OPTIONS THAT WILL BE DISPLAYED FOR THE USER

Press 1 for calculate points Press 2 for show points table Press 3 for exit

ACCORDINGLY POINTS WILL BE CALCULATED. IF OPTION ONE IS SELECTED THEN THE USER SHOULD INPUT THE WINNING TEAM AND

RR Vs LSG Who won the match: RR Press 1 for calculate points Press 2 for show points table Press 3 for exit

Choose any option: 1

RR VS LSG

Who won the match: RR

DC VS CSK

Who won the match: DC

PBKS VS RCB

Who won the match: PBKS

KKR VS MI

Who won the match: KKR

GT VS SRH

Who won the match: GT

SRH VS RR

Who won the match: SRH

MI VS DC

Who won the match: MI

RCB VS PBKS

Who won the match: RCB

CSK VS KKR

Who won the match: CSK

LSG Vs GT

Who won the match: GT

Press 1 for calculate points

Press 2 for show points table

Press 3 for exit

TEAM WITH MOST NUMBER OF POINTS WILL BE AT THE OPTION 2 WILL PRINT THE WHOLE POINTS TABLE. THE

TOP

| Choose any option: 2 ************IPL-Indian Premier League********* | on: 2 'L-Indian P | remier L | eague*** | * |
|--|----------------------|----------|---------------------------------------|---|
| | Points table | table | | |
| Теат | Matches | Won | Lose | Points |
| ******************* | ******* | ****** | ***** | **** |
| 1.GT | 2 | 2 | 0 | 10 |
| | | £ | * * * * * * * * * * * * * * * * * * * | |
| 2.RR | 2 | - | <u>4</u> | 2 |
| *************************************** | **** | **** | ***** | ***** |
| 3.DC 2 1 1 5 | 2 | 1 | 1 | 5 |
| | , | , | , | |
| 4.PBNS | 7 | - | | n |
| 法法律法律法法律法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法 | ******* | **** | ***** | ***** |
| 5.KKR | 2 | - | 1 | 5 |
| 法法律法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法法 | ******* | ****** | ****** | ******* |
| 6.CSK | 2 | F | 1 | 2 |
| *************************************** | ***** | ***** | ***** | ***** |
| 7.RCB | 2 | 1 | 1 | 2 |
| 法法律法律法律法律法律法律法律法律法律法律法律法律法律法律法律法律法律法律法律法 | ******** | ***** | ****** | ******** |
| 8.MI | 2 | | 1 | 2 |
| ************************************* | ********** | ***** | ***** | ****** |
| 9.SRH | 2 | Ţ | 1 | 2 |
| *************************************** | ******* | ****** | ****** | ****** |
| | į | • | ŗ | C |

OPTION 3 WILL EXIT THE PROGRAM

Press 3 for exit Choose any option: 3

