**ASSIGNMENT 2**

//Purpose: To make a program of runs versus overs of cricket match

//Date: 05/09/2017

//Gr. No.: 1710536

//Roll No.: C 34

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#include<simplecpp>

main\_program // main program starts here

{

int a,b,c,d,e,v,w,x,y,z;

cout<<"Enter the runs scored in five overs seperately:\n";

cout<<"You must enter the runs less than 14\n";

cin>>a>>b>>c>>d>>e;

cout<<"Here we are going to draw a graph of runs scored.\n"; // outputs showing values

cout<<"Let the data be as follows:\n";

cout<<"Over \t\t Runs scored\n";

cout<<"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_";

cout<<"\n\n";

cout<<"46\t\t3\n";

cout<<"47\t\t6\n";

cout<<"48\t\t2\n";

cout<<"49\t\t8\n";

cout<<"50\t\t12";

v=20\*a;

w=20\*b;

x=20\*c;

y=20\*d;

z=20\*e;

initCanvas("CRICKER RUNS GRAPH",1024,768); // canvas starts here

Line l1(124,0,124,768); // axes

Line l2(0,600,1024,600);

Rectangle r1(234,600-v,120,2\*v); // rectangular bars of bar graph

Rectangle r2(404,600-w,120,2\*w);

Rectangle r3(574,600-x,120,2\*x);

Rectangle r4(744,600-y,120,2\*y);

Rectangle r5(914,600-z,120,2\*z);

Text t1(512,684,"NUMBER OF OVERS"); // header of x axis

Text t2(62,200,"N"); // header of y axis starts here

Text t3(62,215,"U");

Text t4(62,230,"M");

Text t5(62,245,"B");

Text t6(62,260,"E");

Text t7(62,275,"R");

Text t8(62,305,"O");

Text t9(62,320,"F");

Text t10(62,350,"R");

Text t11(62,365,"U");

Text t12(62,385,"N");

Text t13(62,400,"S");

Text t14(512,40,"GRAPH OF RUNS IN 5 OVERS"); // header of program printed by this

Text t15(234,615,"46"); // this prints the overs

Text t16(404,615,"47");

Text t17(574,615,"48");

Text t18(744,615,"49");

Text t19(914,615,"50");

Text t20(100,40,"14");

Text t21(100,120,"12");

Text t22(100,200,"10");

Text t23(100,280,"8");

Text t24(100,360,"6");

Text t25(100,440,"4");

Text t26(100,520,"2");

r1.setFill(true); // allows to colour the text

r2.setFill(true);

r3.setFill(true);

r4.setFill(true);

r5.setFill(true);

l1.setFill(true);

l2.setFill(true);

r1.setColor(COLOR(251,80,51)); // it states the colour

r2.setColor(COLOR(74,155,228));

r3.setColor(COLOR(251,80,51));

r4.setColor(COLOR(74,155,228));

r5.setColor(COLOR(251,80,51));

l1.setColor(COLOR(18,2,114));

l2.setColor(COLOR(18,2,114));

Rectangle r6(512,40,textWidth("GRAPH OF RUNS IN 5 OVERS")+10,textHeight()+10);

wait(20);

cout<<"\n";

}



