**Computer Science Project**

**Kaun Banega Crorepati Simulation**



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SYNOPSIS

**INTRODUCTION**

Kaun Banega Crorepati (KBC) simulation system is based on the television show by the same name, hosted by Mr. Amitabh Bachchan. The main objective of this application is to provide its users with an opportunity to play the famous quizzing game at the comfort of their homes on a computer system.

**SCOPE**

This program can be used to create databases of questions that can be used later in the gameplay. Users can do so by accessing the admin. menu and logging in with the password “kbcadmin”.

**SYSTEM REQUIREMENTS**

* Operating System- Windows XP
* A keyboard
* A speaker system is also suggested for better interaction.

HEADER FILES

|  |  |
| --- | --- |
| Filename | Description |
| FSTREAM.H | Provides functions for file and i/o handling |
| CONIO.H | Used to create text based UIs |
| STDIO.H | Provides functions with standard i/o capabilities. |
| PROCESS.H | Contains macros for working with threads and processes |
| DOS.H | Used for handling sound, date-time etc. |
| STRING.H | Contains functions with string handling capabilities |
| GRAPHICS.H | Provides functions for creating a GUI. |
| STDLIB.H | This header defines several general purpose functions |
| CTYPE.H | Contains functions with character handling capabilities |

**SOURCE CODE**

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\* COMPUTER SCIENCE PROJECT \*

\* KAUN BANEGA CROREPATI SIMULATION \*

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\* HEADER FILE INCLUSIONS \*

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#include <conio.h>

#include <stdio.h>

#include <process.h>

#include <dos.h>

#include <string.h>

#include <graphics.h>

#include <ctype.h>

#include <stdlib.h>

#include <fstream.h>

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\* FUNCTION PROTOTYPES \*

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void main(); /\*main() requires a prototype itself because it is called in functions declared before itself.\*/

void quit();

void displayhead(int);

void mainmenu();

void createquiz();

void addq();

void adminmenu();

void start();

void displayopt();

void showhelp();

void play();

void drawbox(int,int,int,int,int,int);

void showallq(int);

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\* Global Variables \*

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char Q[13][350];

char Options[13][4][20];

int A[13];

int q;

int t=100;

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\* Class declaration \*

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class kbc

{ int ans;

public:

char Ques[350],Opt[4][20];

kbc()

{ ans=1;

}

int getans()

{return ans;}

void readq()

{ cout<<"\n\n Enter question: \n\t\t";gets(Ques);

cout<<"\n\n Enter Option1: ";gets(Opt[0]);

cout<<"\n\n Enter Option2: ";gets(Opt[1]);

cout<<"\n\n Enter Option3: ";gets(Opt[2]);

cout<<"\n\n Enter Option4: ";gets(Opt[3]);

cout<<"Enter correct option number: ";cin>>ans;

cout<<"\n\n New question added!";

delay(1000);

displayhead(2);

}

void showbrief();

};

void kbc::showbrief()

{ if(strlen(Ques)<80)

cout<<Ques;

else

{ for(int i=0;i<74;i++)

{ cout<<Ques[i];

}

cout<<"...";

}

}

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\* Function to select random questions \*

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void createquiz()

{ kbc KBCQ[13];

fstream file;

for(int i=0;i<13;i++)

{ char fname[15]={'L','e','v','e','l',' ',i+49,'.','k','b','c','\0'};

if(i>=9)

{ fname[5]='1';

if(i==9)

fname[6]='0';

else if(i==10)

fname[6]='1';

else if(i==11)

fname[6]='2';

else if(i==12)

fname[6]='3';

}

int no\_of\_records=0;

ifstream levelfile(fname,ios::in|ios::binary);

if(levelfile)

{ levelfile.seekg(0,ios::end);

long filesize=levelfile.tellg();

no\_of\_records=filesize/sizeof(kbc);

}

else

{ cout<<"\nERROR>> FILE NOT FOUND: "<<fname;

getch();

mainmenu();

}

randomize();

int qno=random(no\_of\_records+1);

if(qno==0)

qno=1;

file.open(fname,ios::in|ios::binary);

file.seekg((qno-1)\*sizeof(kbc),ios::beg);

file.read((char\*)&KBCQ[i],sizeof(kbc));

strcpy(Q[i],KBCQ[i].Ques);

strcpy(Options[i][0],KBCQ[i].Opt[0]);

strcpy(Options[i][1],KBCQ[i].Opt[1]);

strcpy(Options[i][2],KBCQ[i].Opt[2]);

strcpy(Options[i][3],KBCQ[i].Opt[3]);

A[i]=KBCQ[i].getans();

file.close();

getch();

}

}

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\* Function to add a question to an existing database \*

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void addq()

{ reenter:

displayhead(2);

kbc KBCQ[13];

int level=0;

cout<<"\n\n\n\n Enter the level you want to add questions to \n(The levels are numbered 1 to 13)...";

cin>>level;

char fname[15]={'l','e','v','e','l',' ',level+48,'.','k','b','c','\0'};

if(level>8)

{ fname[5]='1';

if(level==10)

fname[6]='0';

else if(level==11)

fname[6]='1';

else if(level==12)

fname[6]='2';

else if(level==13)

fname[6]='3';

}

cout<<"\n\nHow many questions do you want to enter?\n";

int n=0;cin>>n;

\_setcursortype(\_NORMALCURSOR);

fstream file(fname,ios::out|ios::binary|ios::app);

displayhead(2);

for(int i=0;i<n;i++)

{ cout<<"\nQ no."<<i+1<<": \n";KBCQ[i].readq();

file.write((char\*)&KBCQ[i],sizeof(KBCQ[i]));

}

file.close();

\_setcursortype(\_NOCURSOR);

}

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\* Function to display the KBC header \*

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void displayhead(int opt=1)

{ textcolor(LIGHTGREEN);textbackground(BLACK);clrscr();

gotoxy(1,1);

textcolor(WHITE);textbackground(BLUE);

if(opt==1)

{ cprintf("ESC: EXIT");

for (int ctr=0;ctr<19;ctr++)

cprintf(" ");

cprintf(" Kaun Banega Crorepati F1: Help");

for (ctr=0;ctr<2;ctr++)

cprintf(" ");

}

else

{ for (int ctr=0;ctr<28;ctr++)

cprintf(" ");

cprintf(" Kaun Banega Crorepati ");

for (ctr=0;ctr<2;ctr++)

cprintf(" ");

}

gotoxy(1,2);

}

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\* Function to display the loading splash screen \*

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void start()

{ displayhead(2);

char l=176,d=178;

cout<<"\n\n\n\n\n\n\n\t\t\t\t LOADING\n\n\t\t\t\t\t ";

for (int j=0;j<4;j++)

{ for(int i=0;i<7;i++)

{ if(i==0){cout<<"\b\b\b\b\b\b\b"<<d<<l<<l<<l<<l<<l<<l;delay(80);}

if(i==1){cout<<"\b\b\b\b\b\b\b"<<l<<d<<l<<l<<l<<l<<l;delay(80);}

if(i==2){cout<<"\b\b\b\b\b\b\b"<<l<<l<<d<<l<<l<<l<<l;delay(80);}

if(i==3){cout<<"\b\b\b\b\b\b\b"<<l<<l<<l<<d<<l<<l<<l;delay(80);}

if(i==4){cout<<"\b\b\b\b\b\b\b"<<l<<l<<l<<l<<d<<l<<l;delay(80);}

if(i==5){cout<<"\b\b\b\b\b\b\b"<<l<<l<<l<<l<<l<<d<<l;delay(80);}

if(i==6){cout<<"\b\b\b\b\b\b\b"<<l<<l<<l<<l<<l<<l<<d;delay(80);}

}

}

displayhead(2);

cout<<"\n\n\n\n\n\t\t\t";textcolor(BLINK+LIGHTGREEN);textbackground(BLACK);

cprintf("Press any key to continue...");

getch();

displayhead(2);

}

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\* Function to show a list of questions in a file \*

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void showallq(int levelnumber=1)

{ kbc kbcobj;

int recordsread=0;

if(levelnumber==0)levelnumber++;

char fname[15]={'l','e','v','e','l',' ',levelnumber+48,'.','k','b','c','\0'};

if(levelnumber>=9)

{ fname[5]='1';

if(levelnumber==10)

fname[6]='0';

else if(levelnumber==11)

fname[6]='1';

else if(levelnumber==12)

fname[6]='2';

else if(levelnumber==13)

fname[6]='3';

}

ifstream file(fname,ios::in|ios::binary);

long filesize=0;

int nofrecords=0;

if(file)

{ file.seekg(0,ios::end);

filesize=file.tellg();

nofrecords=filesize/sizeof(kbc);

file.seekg(0,ios::beg);

}

else

{ cout<<"ERROR>> FILE NOT FOUND: "<<fname;

getch();

mainmenu();

}

displayhead(2);

while(file && recordsread<nofrecords)

{ cout<<"\n"; file.read((char\*)&kbcobj,sizeof(kbc));

recordsread++;

cout<<recordsread<<") ";

kbcobj.showbrief();

}

file.close();

}

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\* Function to control selection of options in gameplay \*

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void displayopt(int selected=0)

{ if(selected==0)

cout<<"\n\n\n\t\t1) "<<Options[q][0]<<"\n\n\t\t2) "<<Options[q][1]<<"\n\n\t\t3) "<<Options[q][2]<<"\n\n\t\t4) "<<Options[q][3];

else if(selected==1)

{cout<<"\n\n\n\t >> 1) ";textbackground(BLUE);cprintf(Options[q][0]);cout<<"\n\n\t\t2) "<<Options[q][1]<<"\n\n\t\t3) "<<Options[q][2]<<"\n\n\t\t4) "<<Options[q][3];}

else if (selected==2)

{cout<<"\n\n\n\t\t1) "<<Options[q][0]<<"\n\n\t >> 2) ";textbackground(BLUE);cprintf(Options[q][1]);cout<<"\n\n\t\t3) "<<Options[q][2]<<"\n\n\t\t4) "<<Options[q][3];}

else if (selected==3)

{cout<<"\n\n\n\t\t1) "<<Options[q][0]<<"\n\n\t\t2) "<<Options[q][1];cout<<"\n\n\t >> 3) ";textbackground(BLUE);cprintf(Options[q][2]);cout<<"\n\n\t\t4) "<<Options[q][3];}

else if (selected==4)

{cout<<"\n\n\n\t\t1) "<<Options[q][0]<<"\n\n\t\t2) "<<Options[q][1]<<"\n\n\t\t3) "<<Options[q][2]<<"\n\n\t >> 4) ";textbackground(BLUE);cprintf(Options[q][3]);}

}

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\* Function to display the help section \*

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void showhelp()

{ displayhead(2);

cout<<"\n\n\n\t\t\t HELP";

cout<<"\n\n\t\t\t Selection : Arrow keys";

cout<<"\n\t\t\t Submit : Enter key";

cout<<"\n\t\t\t Exit : Escape key";

cout<<"\n\n\n\n\t\t\t Gameplay";

cout<<"\n\n\t\t\t There are 13 questions in a game";

cout<<"\n\t\t\t which are selected randomly from";

cout<<"\n\t\t\t our database. Arrow keys are used";

cout<<"\n\t\t\t to highlight the options and enter";

cout<<"\n\t\t\t key to lock the answer. You can";

cout<<"\n\t\t\t can quit anytime by pressing ESC.";

cout<<"\n\n\n\n\nPress ESC to go back...";

drawbox(22,3,64,22,WHITE,LIGHTGRAY);

drawbox(22,11,64,22,LIGHTGRAY,WHITE);

char ch;

lbl1:

ch=getch();

if(ch==27)

{ clrscr();

mainmenu();

}

else

goto lbl1;

}

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\* Function to control the game in play mode \*

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void play()

{ long amt[13]={5000, 10000, 20000, 40000, 80000, 160000, 320000, 640000, 1250000, 2500000, 5000000, 10000000, 50000000 };

char ans='0';int sel=0;

createquiz();

//=======THE QUESTIONS ARE ASKED IN THIS SECTION=========

for(q=1;q<13;q++) //This loop is iterated 13 times with a different question each time.

{

for(t=45\*4;t>=0;t--) //Timer loop

{

displayhead(2);

cout<<"\n\nQuestion "<<q+1<<"\n\t\t "<<"In Hand: Rs."<<(amt[q]==5000?0:amt[q-1])<<"\t\t\tPrize: Rs."<<amt[q]<<"\n\n";

cout<<Q[q];

displayopt(sel);

cout<<"\n\n\t\t\t You have "<<t/4<<" seconds to answer.";

if(kbhit())

{ ans=getch();

if(ans==13)

ans=sel+48;

if(ans==27)

quit();

if(ans==59)

showhelp();

if (ans==80||ans==72)

{ if(ans==80)

sel++; //down arrow

if(ans==72)

sel--; //up arrow

if(sel<1)

sel=4;

if(sel>4)

sel=1;

}

t++; //This increment is for compensating the loss of time in analysing a keypress.

if(isdigit(ans) && (ans=='1'||ans=='2'||ans=='3'||ans=='4'))

{ cout<<"\nYou selected Option "<<ans<<"\n";delay(500);

ans-=48; //to enable processing answer as a numeric value, digit 0 is char 48

if(ans==A[q])

{cout<<"\n\n\t\t\t YES!!! Correct Answer! You won Rs."<<amt[q];cout<<"\n\n\t\t\t ";textcolor(LIGHTGREEN+BLINK);textbackground(BLACK);cprintf("Press any key to continue...");getch();goto dis;}

else if(ans!=A[q])

{ans='0';cout<<"\n\n\t\t\t Sorry Wrong Answer.\n";

delay(500);cout<<"\n\t\t\t Try again(y/n)? ";char ch;

reenter1:

ch=getch();

if(ch=='y'||ch=='Y'||ch==13)

play();

else if(ch=='n'||ch=='N'||ch==27)

{displayhead(1);mainmenu();}

else

goto reenter1;

}

}

}

else

{

if((t/4)<10)

{for(int j=0;j<20;j++)cout<<"\b";

textcolor(RED);textbackground(BLACK);

}

else

{for(int j=0;j<21;j++)cout<<"\b";

textcolor(GREEN);textbackground(BLACK);

}

cprintf("%i",t/4);textbackground(BLACK);textcolor(LIGHTGREEN);

cprintf(" seconds to answer.");

delay(250);

if(t%5==0){sound(3000);delay(5);nosound();}

}

}//end of timer loop

cout<<"\n\n\t\t\t Game Over.";

delay(500);cout<<"\n\t\t\t Try again(y/n)? ";char ch;

reenter:

ch=getch();

if(ch=='y'||ch=='Y'||ch==13)

play();

else if (ch=='n'||ch=='N'||ch==27)

mainmenu();

else

goto reenter;

dis: }//end of the main for loop

displayhead(2); char l=179,c1=218,c2=191,c3=192,c4=217,d=196;

cout<<"\n\n\n\n\n\t\t\t Congratulations you've won the game!!!\n\n\t Your Cheque: \n\n";

cout<<"\n\t\t "<<c1;for(int i=0;i<48;i++)cout<<d;cout<<c2;

cout<<"\n\t\t "<<l<<" "<<l;

cout<<"\n\t\t "<<l<<" Pay \_\_The Winner\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ "<<l;

cout<<"\n\t\t "<<l<<" a sum of Rs. \_\_\_5 Crore\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ "<<l;

cout<<"\n\t\t "<<l<<" "<<l;

cout<<"\n\t\t "<<l<<" "<<l;

cout<<"\n\t\t "<<l<<" AXIS BANK AMITABH BACHHAN "<<l;

cout<<"\n\t\t "<<l<<" Mumbai "<<l;

cout<<"\n\t\t "<<l<<" "<<l;

cout<<"\n\t\t "<<c3;for(i=0;i<48;i++)cout<<d;cout<<c4;

getch();

}

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\* Function to display credits before the program exits \*

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void quit()

{ displayhead(2);

cout<<"\n\n\n\n\n\n\n\n\t\t\t Thank You for playing!";

cout<<"\n\n\t\t\t\tCode by\n\t\t\t Deepanshu Nagar\n";

cout<<"\t\t\tEmail: dipanshunagar@hotmail.com\n";

cout<<"\t\t\t Roll number ------\n\n\t\t Submitted to\n\t\t\t Ms.Raina Gupta";

cout<<"\n\t\t\t Arunodaya Public School\n\n\n\n\n\nPress any key to exit...";

drawbox(2,8,79,22,WHITE,LIGHTGRAY);

getch(); clrscr();

exit(0);

}

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\* Function that controls the working of the admin menu \*

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void adminmenu()

{ displayhead(2);

cout<<"\n\n\n\n\n\t\t\t ENTER PASSWORD\n\n\n\t\t\t ";

char ch,pass[20];

drawbox(20,5,50,18,WHITE,LIGHTGRAY);

drawbox(26,11,44,13,WHITE,LIGHTGRAY);

int i=0;

gotoxy(30,12);

do

{ ch=getch();

gotoxy(30+i,12);

if(ch!=13)

{ pass[i]=ch;cout<<"\*";

i++;

drawbox(20,5,50,18,WHITE,LIGHTGRAY);

drawbox(26,11,44,13,WHITE,LIGHTGRAY);

gotoxy(30+i,12);

}

}while(ch!=13);

pass[i]='\0';

if(strcmp(pass,"kbcadmin")==0)

{displayhead(2);

cout<<"\n\n\n\t\t\t AUTHORISED";

delay(1000);

displayhead(2);

int sel=1;

do

{ cout<<"\n\n\n\n\t\t\t ADMIN MENU";

if(sel==1)

cout<<"\n\n\n\t\t\t >> Add a Question\n\n\t\t\t See all questions\n\n\t\t\t Back to Main-Menu";

else if(sel==2)

cout<<"\n\n\n\t\t\t Add a Question\n\n\t\t\t >> See all questions\n\n\t\t\t Back to Main-Menu";

else if(sel==3)

cout<<"\n\n\n\t\t\t Add a Question\n\n\t\t\t See all questions\n\n\t\t\t >> Back to Main-Menu";

drawbox(24,4,55,15,WHITE,LIGHTGRAY);

ch=getch();

if (ch==80) //down arrow

sel++;

else if (ch==72) //up arrow

sel--;

if (sel>3) //selection out of bounds

sel=1;

else if (sel<1) //selection out of bounds

sel=3;

displayhead(2);

}while(ch!=13);

if(sel==1)

addq();

else if(sel==2)

{ gotoxy(1,20);

cout<<"\tWhich file do you want to open?\nPlease enter a file number 1 to 13: ";

int n;cin>>n; showallq(n);

}

else if(sel==3)

mainmenu();

}

else

{ cout<<"\n\n\n\t\t\t WRONG PASSWORD";

getch(); }

}

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\* Function to draw a border on the screen \*

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void drawbox(int x1,int y1,int x2,int y2,int color1=WHITE,int color2=WHITE)

{ for(int i=x1;i<=x2;i++)

{ if(i%2==0)textcolor(color1);

else

textcolor(color2);

gotoxy(i,y1);

cprintf("%c",219);

gotoxy(i,y2);

cprintf("%c",219);

}

for(i=y1;i<=y2;i++)

{ if(i%2==0)textcolor(color1);

else

textcolor(color2);

gotoxy(x1,i);

cprintf("%c",219);

gotoxy(x2,i);

cprintf("%c",219);

}

}

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\* Function that controls the main menu \*

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void mainmenu()

{ displayhead(1);

int selected=1;

char options[3][20]={" PLAY "," Admin. Login "," Exit "},ch;

textbackground(BLACK);textcolor(WHITE);

cout<<"\n\n\n\n\n\n\t\t\t ";cprintf(" MAIN MENU ");

cout<<"\n\n\n\t\t\t ";textbackground(BLUE);cprintf(options[0]);cout<<"\n\n\t\t\t "<<options[1]<<"\n\n\t\t\t "<<options[2];

drawbox(30,6,51,17,WHITE,LIGHTGRAY);

do

{ ch=getch();

if (ch==80) //down arrow

selected++;

if (ch==72) //up arrow

selected--;

if (ch==27) //escape key

quit();

if (ch==59) //F1 Key

showhelp();

if (selected>3) //selection out of bounds

selected=1;

if (selected<1) //selection out of bounds

selected=3;

displayhead(1);

textbackground(BLACK);textcolor(WHITE);

cout<<"\n\n\n\n\n\n\t\t\t ";cprintf(" MAIN MENU ");

if(selected==1)

{cout<<"\n\n\n\t\t\t ";textbackground(BLUE);cprintf(options[0]);cout<<"\n\n\t\t\t "<<options[1]<<"\n\n\t\t\t "<<options[2];}

else if(selected==2)

{cout<<"\n\n\n\t\t\t "<<options[0]<<"\n\n\t\t\t ";textbackground(BLUE);cprintf(options[1]);cout<<"\n\n\t\t\t "<<options[2];}

else if(selected==3)

{cout<<"\n\n\n\t\t\t "<<options[0];cout<<"\n\n\t\t\t "<<options[1]<<"\n\n\t\t\t ";textbackground(BLUE);cprintf(options[2]);}

drawbox(30,6,51,17,WHITE,LIGHTGRAY);

}while(ch!=13);

if(selected==1)

play();

else if(selected==2)

adminmenu();

else if(selected==3)

quit();

}

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Function to start and run the program \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

void main()

{ clrscr();

int gdriver = DETECT, gmode, errorcode;

initgraph(&gdriver, &gmode, "");

errorcode = graphresult();

if (errorcode != grOk) /\* an error occurred \*/

{ printf("Graphics error: %s\n", grapherrormsg(errorcode));

printf("Press any key to halt:");

getch();

exit(1); /\* terminate with an error code \*/

}

//Draw the KBC logo

setcolor(BLUE);

for(int n=100;n<107;n++)

circle(getmaxx()/2,getmaxy()/2,n);

setcolor(LIGHTBLUE);

arc((getmaxx()/2)-100,(getmaxy()/2)+0, 300, 60, 100);

arc((getmaxx()/2)+100,(getmaxy()/2)+0, 120, 240, 100);

arc((getmaxx()/2)+0,(getmaxy()/2)+100, 30, 150, 100);

arc((getmaxx()/2)+0,(getmaxy()/2)-100, 210, 330, 100);

arc((getmaxx()/2)+70,(getmaxy()/2)+70, 76, 194, 100);

arc((getmaxx()/2)+70,(getmaxy()/2)-70, 165, 285, 100);

arc((getmaxx()/2)-70,(getmaxy()/2)+70, 345, 104, 100);

arc((getmaxx()/2)-70,(getmaxy()/2)-70, 255, 16, 100);

setcolor(WHITE);

settextstyle(0,HORIZ\_DIR,2);

outtextxy((getmaxx()/2)-160,(getmaxy()/2)-10,"Kaun Banega Crorepati");

delay(1000);

getch();

getch();

closegraph();

delay(500);

\_setcursortype(\_NOCURSOR);

start(); //Displays the Loading splash screen

getch();

main\_menu:

randomize();

mainmenu();

getch();

displayhead(1);

goto main\_menu; //Program does not end until the user wishes to exit.

}

**OUTPUT**

**Welcome to KBC, Let’s Play!**





























































