1 Project Aim

A quiz game is prepared in which questions are asked with four options are given, we have to select the correct option.

2 Statistical data

Starting Date- 18/11/22
Ending Date- 22/11/22
Number of lines of code- 313

3 DEFINE FUNCTIONS-

3.0.1 Show record function:

Show record function shows your previous records in the game.

3.0.2 Reset score function:

Reset the score of all the previous games to zero and give a new start to the game.

3.0.3 Help:

A helpbox will pop in front of you when you call for the help function.

3.0.4 Edit Score:

All the scores of game got edited by calling the edit score function.

3.0.5 Name function:

This function will ask the name of the player.

3.0.6 Age function

This functions will ask the age of the player.

3.0.7 Subject function

This functions asks the user to select the subject for the quiz.

3.0.8 Compare Score

This function compares the score of the players.

3.0.9 List players:

List function list all the players.

4 SOURCE CODE-

4.1 IN C LANGUAGE:

```
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
#include<stdlib.h>
#include<string.h>
void show_record();
void reset_score();
void help();
void edit_score(float , char []);
void name();
void age();
```

```
void subject();
int main()
     {
     int countr,r,r1,count,i,n;
     float score;
     char choice;
     char playername[20];
     mainhome:

     printf("QUIZ GAME\n");
     printf("Lets play this game\n");
     printf("Press S to start the game\n");
     printf("Press V to view the highest score\n");
     printf("Press R to reset score\n");
     printf("Press H for help\n");
     printf("Press Q to quit\n");
     choice=toupper(getch());
     if (choice=='V')
    {
    show_record();
    goto mainhome;
    }
     else if (choice=='H')
    {
    help();getch();
    goto mainhome;
    }
    else if (choice=='R')
    {reset_score();
    getch();
    goto mainhome;}
    else if (choice=='Q')
    exit(1);
    else if(choice=='S')
    {
     system("cls");

    printf("\n\tResister your name:");
     gets(playername);
```

```
system("cls");
printf("\n Welcome %s Quiz Game",playername);
printf("\n >> There are 2 rounds in Game");
printf("\n >> In first round you will be asked science\\
questions and in the second round maths questions");
printf("\n >> You have to select the correct option\\ from the
printf("\n\n\n Press Y  to start the game!\n");
printf("\n Press any other key to return to the main menu!");
if (toupper(getch())=='Y')
    {
        goto home;
    }
else
    {
    goto mainhome;
   system("cls");
   }

 home:
 system("cls");
 count=0;
 for(i=1;i<=3;i++)
 {
system("cls");
 r1=i;

 switch(r1)
    {
    case 1:
    printf("\n\nThe solar cell receives energy from?");
    printf("\n\nA.Sunlight\t\tB.earth\n\nC.moon\t\tD.lamp");
    if (toupper(getch())=='A')
        {
            printf("\n\nCorrect!!!");count++;
            getch();
            break;}
    else
           {
     printf("\n\nWrong!!! The correct answer\\
    is A.Sunlight");
```

```
getch();
 break;
 }

 case 2:
 printf("\n\n\nThe moon is a?");
 printf("\n\nA.planet\t\tB.object\n\nC.Satellite\t\tD.man");
 if (toupper(getch())=='C')
{printf("\n\nCorrect!!!");count++;
 getch();}
    else
   {printf("\n\nWrong!!! The correct answer is C.Satellite");
    getch();
    break;}

     case 3:
    printf("\n\n\nWe can see through easily ... objects.?");
    printf("\n\nA.translucent\t\tB.transparent\n\n\\
    C.opaque\t\tD.all");
    if (toupper(getch())=='B')
     {printf("\n\nCorrect!!!");count++;
           getch();
           break;}
       else
    {printf("\n\nWrong!!! The correct answer is B.transparent");
              getch();
              break;}

       case 4:
       printf("\n\n\nSun rises from?");
       printf("\n\nA.West\t\tB.east\n\nC.north\t\tD.south");
       if (toupper(getch())=='B')
           {printf("\n\nCorrect!!!");count++;
           getch();
            break;}
       else
{printf("\n\nWrong!!! The correct answer is B.east");
   getch();
   break;}
```

```
        case 5:
        printf("\n\n\nWe live in which planet?");
        printf("\n\nA.mars\t\tB.earth\n\nC.jupiter\t\tD.saturn");
        if (toupper(getch())=='B')
                {printf("\n\nCorrect!!!");count++;
                getch();
                 break;}
        else
       {printf("\n\nWrong!!! The correct answer is B.earth");
       getch();
        break;}}
          }

     if(count>=2)
     {goto test;}
     else
     {
     system("cls");
     printf("\n\nSORRY YOU ARE NOT ELIGIBLE TO\\
     PLAY THIS GAME, BETTER LUCK NEXT TIME");
     getch();
     goto mainhome;
     }
      test:
      system("cls");
      printf("\n\n\t*** CONGRATULATION %s you are\\
      eligible to play the Game ***",playername);
      printf("\n\n\n\n\t!Press any key to Start the Game!");
      if(toupper(getch())=='p')
         {goto game;}
game:
      countr=0;
      for(i=1;i<=10;i++)
      {system("cls");
      r=i;

      switch(r)
         {
         case 1:
```

```
        printf("\n\nThe sum of largest and smallest 2\\
\ digit number is?");
        printf("\n\nA.10\t\tB.99\n\nC.109\t\tD.55");
        if (toupper(getch())=='C')
            {printf("\n\nCorrect!!!");countr++;getch();
             break;getch();}
        else
               {printf("\n\nWrong!!! The correct answer is C.109");
               goto score;
               break;}

        case 2:
        printf("\n\n\nMultiplication of 0 with any number?");
        printf("\n\nA.0\t\tB.10\n\nC.100\t\tD.1");
        if (toupper(getch())=='A')
            {printf("\n\nCorrect!!!");countr++;getch();
             break;}
        else
      {printf("\n\nWrong!!! The correct answer is A.0");getch();
       goto score;
          break;
              }

        case 3:
        printf("\n\n\nAdditive inverse of a is ?");
        printf("\n\nA.a\t\tB.52\n\nC.-a\t\tD.0");
        if (toupper(getch())=='C')
        {printf("\n\nCorrect!!!");countr++;getch();
         break;}
        else
      {printf("\n\nWrong!!! The correct answer is C.-a");getch();
      goto score;
     break;}

        case 4:
        printf("\n\n\nAdditive identity of a is?");
        printf("\n\nA.0\t\tB.10\n\nC.100\t\tD.99");
        if (toupper(getch())=='A')
            {printf("\n\nCorrect!!!");countr++;getch();
             break;}
```

```
        else
         {
          printf("\n\nWrong!!! The correct answer is A.0");getch();
         goto score;
           break;
            }

        case 5:
        printf("\n\n\nArea of rectangle is?");
        printf("\n\nA.l\t\tB.l*b\n\nC.b\t\tD.2lb");
        if (toupper(getch())=='B')
            {printf("\n\nCorrect!!!");countr++;getch(); break;}
        else
      {
      printf("\n\nWrong!!! The correct answer is B.l*b");
          getch();
          goto score;
              break;
               }}}
    score:
    system("cls");
    score=(float)countr*100000;
    if(score>0.00 && score<1000000)
    {
       printf("\n\n\t\tCONGRATULATION");
         printf("\n\t You won $%.2f",score);goto go;}

     else if(score==1000000.00)
    {
        printf("\n\n\n \t\tCONGRATULATION you win!!!");
        printf("\n\t\t You won $%.2f",score);
        printf("\t\t Thank You!!");
    }
     else
{
     printf("\n\n\nSORRY YOU DIDN'T WIN ANY CASH");
        printf("\n\t\t Thanks for your participation");
        printf("\n\t\t TRY AGAIN");goto go;}

    go:
```

```
    puts("\n\n Press Y if you want to play next game");
    puts(" Press any key if you want to go main menu");
    if (toupper(getch())=='Y')
        goto home;
    else
        {
        edit_score(score,playername);
        goto mainhome;}}}

void show_record()
    {system("cls");
    char name[20];
    float scr;
    FILE *f;
    f=fopen("score.txt","r");
    fscanf(f,"%s%f",&name,&scr);
    printf("\n\n\t\t %s has secured the Highest \\
    Score %0.2f",name,scr);
    fclose(f);
    getch();}

void reset_score()
    {system("cls");
    float sc;
    char nm[20];
    FILE *f;
    f=fopen("score.txt","r+");
    fscanf(f,"%s%f",&nm,&sc);
    sc=0;
    fprintf(f,"%s,%.2f",nm,sc);
    fclose(f);}

void help()
    {system("cls");
    printf("\nHELP");
    printf("\nThere are two rounds in the game, science\\
    round and maths round");
    printf("\nIn maths round you will be asked a total of 5 questio
    printf("\nYou will be given 4 options and you have to\\
    select the correct option");
```

```
    printf("\nYou will be asked questions continuously\\
    if you keep giving the right answers.");
    printf("\nNo negative marking for wrong answers");
    printf("\nThankyou for playing");}
    void subject(){
        printf("enter the subject");
        scanf("%ch",&subject);

    }
    void name(){
        scanf("%ch", &name);
        printf("name %ch", name);
    }
    void age(){
        scanf("%d",&age);
        printf("age %d", age);
    }

void edit_score(float score, char plnm[20])
    {system("cls");
    float sc;
    char nm[20];
    FILE *f;
    f=fopen("score.txt","r");
    fscanf(f,"%s%f",&nm,&sc);
    if (score>=sc)
      { sc=score;
        fclose(f);
        f=fopen("score.txt","w");
        fprintf(f,"%s\n%.2f",plnm,sc);
        fclose(f);}}
```

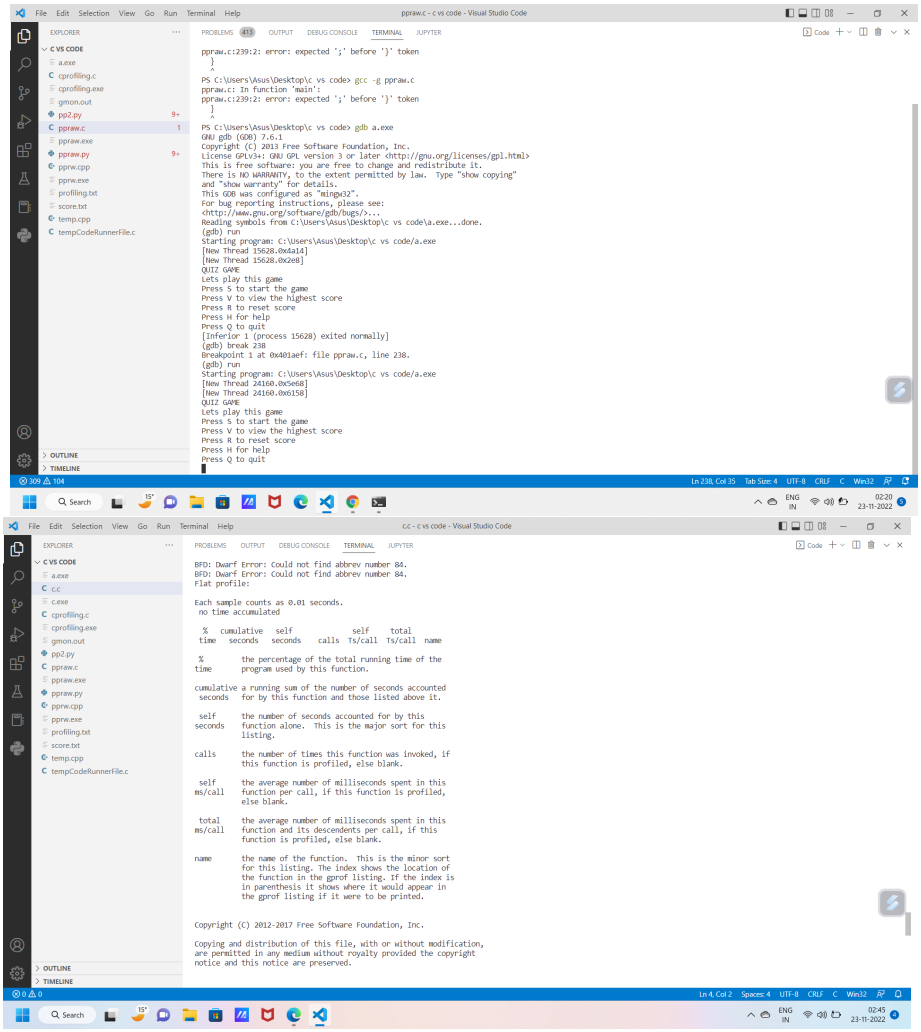
5 Output in C language-

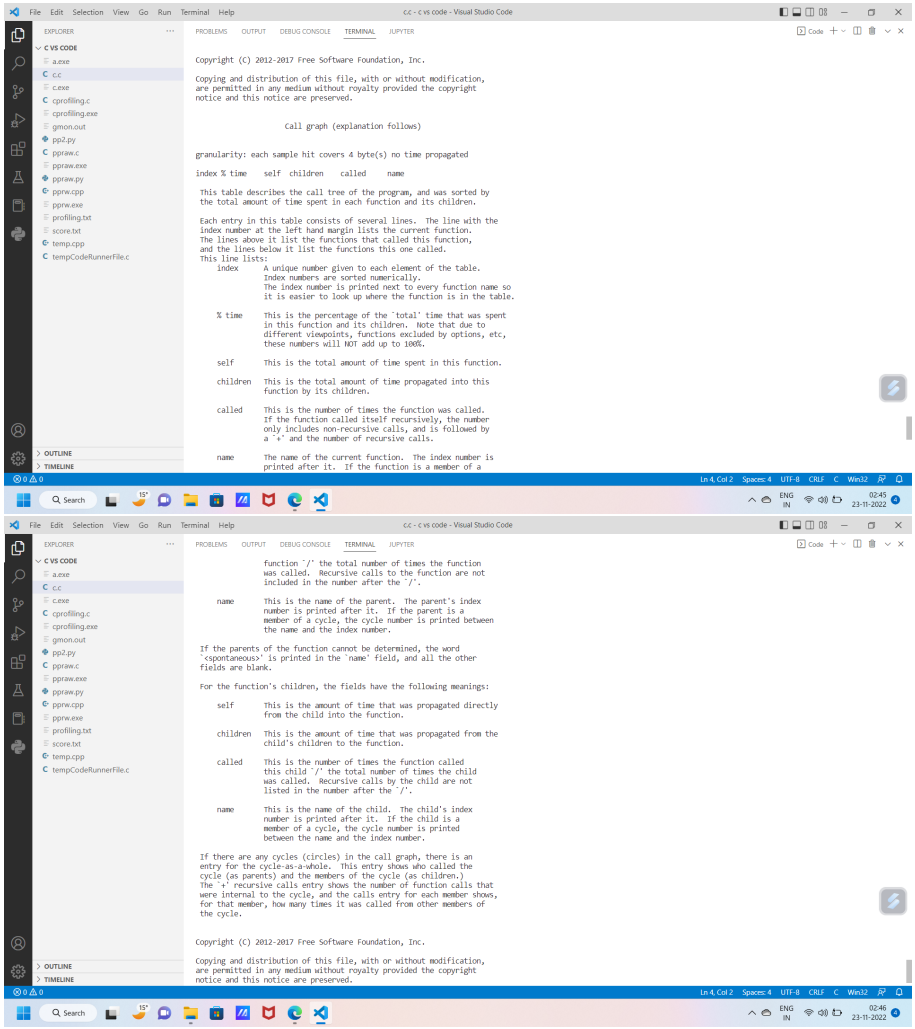
```
 Welcome  Quiz Game
 >> There are 2 rounds in Game
 >> In first round you will be asked science questions and in the second round maths questions
 >> You have to select the correct option from the given options


 Press Y  to start the game!

 Press any other key to return to the main menu!QUIZ GAME
Lets play this game
Press S to start the game
Press V to view the highest score
Press R to reset score
Press H for help
Press Q to quit
```

```
The solar cell receives energy from?

A.Sunlight                B.earth

C.moon            D.lamp
```

```
HELP
There are two rounds in the game, science round and maths round
In maths round you will be asked a total of 5 questions
You will be given 4 options and you have to select the correct option
You will be asked questions continuously if you keep giving the right answers.
No negative marking for wrong answers
Thankyou for playing
```

6 Profiling and debugging




File Edit Selection View Go Run Terminal Help
c.c - c vs code - Visual Studio Code
EXPLORER
C VS CODE
a.exe
c.c
c.exe
cprofiling.c
cprofiling.exe
gmon.out
pp2.py
ppraw.c
ppraw.exe
ppraw.py
pprw.cpp
pprw.exe
profiling.txt
score.txt
temp.cpp
tempCodeRunnerFile.c
OUTLINE
TIMELINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
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notice and this notice are preserved.
Call graph (explanation follows)
granularity: each sample hit covers 4 byte(s) no time propagated
index % time self children called name
This table describes the call tree of the program, and was sorted by
the total amount of time spent in each function and its children.
Each entry in this table consists of several lines. The line with the
index number at the left hand margin lists the current function.
The lines above it list the functions that called this function,
and the lines below it list the functions this one called.
This line lists:
index A unique number given to each element of the table.
Index numbers are sorted numerically.
The index number is printed next to every function name so
it is easier to look up where the function is in the table.
% time This is the percentage of the `total' time that was spent
in this function and its children. Note that due to
different viewpoints, functions excluded by options, etc,
these numbers will NOT add up to 100%.
self This is the total amount of time spent in this function.
children This is the total amount of time propagated into this
function by its children.
called This is the number of times the function was called.
If the function called itself recursively, the number
only includes non-recursive calls, and is followed by
a `+' and the number of recursive calls.
name The name of the current function. The index number is
printed after it. If the function is a member of a
Ln 4, Col 2 Spaces: 4 UTF-8 CRLF C Win32
Search
ENG IN
02:45 23-11-2022

File Edit Selection View Go Run Terminal Help
c.c - c vs code - Visual Studio Code
EXPLORER
C VS CODE
a.exe
c.c
c.exe
cprofiling.c
cprofiling.exe
gmon.out
pp2.py
ppraw.c
ppraw.exe
ppraw.py
pprw.cpp
pprw.exe
profiling.txt
score.txt
temp.cpp
tempCodeRunnerFile.c
OUTLINE
TIMELINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
function `/' the total number of times the function
was called. Recursive calls to the function are not
included in the number after the `/'.
name This is the name of the parent. The parent's index
number is printed after it. If the parent is a
member of a cycle, the cycle number is printed between
the name and the index number.
If the parents of the function cannot be determined, the word
`<spontaneous>' is printed in the `name' field, and all the other
fields are blank.
For the function's children, the fields have the following meanings:
self This is the amount of time that was propagated directly
from the child into the function.
children This is the amount of time that was propagated from the
child's children to the function.
called This is the number of times the function called
this child `/' the total number of times the child
was called. Recursive calls by the child are not
listed in the number after the `/'.
name This is the name of the child. The child's index
number is printed after it. If the child is a
member of a cycle, the cycle number is printed
between the name and the index number.
If there are any cycles (circles) in the call graph, there is an
entry for the cycle-as-a-whole. This entry shows who called the
cycle (as parents) and the members of the cycle (as children.)
The `+' recursive calls entry shows the number of function calls that
were internal to the cycle, and the calls entry for each member shows,
for that member, how many times it was called from other members of
the cycle.
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notice and this notice are preserved.
Ln 4, Col 2 Spaces: 4 UTF-8 CRLF C Win32
Search
ENG IN
02:46 23-11-2022

Assignment #7 Mini Project
Latex code

```
\documentclass[12pt,a4paper]
{article}
\usepackage[hmargin=4.5cm,vmargin=4.5cm]
{geometry}
\usepackage[utf8]{inputenc}
\usepackage{fancyhdr}
\usepackage{graphicx}
\usepackage{listings}
\lstdefinestyle{chystyle}{
basicstyle=\ttfamily\small,
showstringspaces=false,
%captionpos=b,
}
\begin{document}
\pagestyle{fancy}
\fancyhead[L]{{\large\bf{0801CS211030}}}
\fancyhead[R]{{\large\bf{Ayushi Kesharwani}}}
\begin{center}
\title{MINI PROJECT ON QUIZ GAME}
\end{center}
\section{Project Aim}\\
  A quiz game is prepared in which questions are asked with four options are given, we have to select the correct option.\\

 \section{Statistical data}\\
 Starting Date- 18/11/22\\
 Ending Date- 22/11/22\\
 Number of lines of code- 313\\

\section{DEFINE FUNCTIONS-}\\

\subsubsection{ Show record function:}\\
 Show record function shows your previous records in the game.
 \bigskip

\subsubsection{ Reset score function:}\\
Reset the score of all the previous games to zero and give a new start to the game.
\bigskip
\\
\subsubsection{ Help:}\\
A helpbox will pop in front of you when you call for the help function.
\bigskip
\\
\subsubsection{ Edit Score:}\\
All the scores of game got edited by calling the edit score function.
\bigskip
```

\\
\subsubsection{ Name function:}\\
This function will ask the name of the player.
\bigskip
\\
\subsubsection{ Age function}\\
This functions will ask the age of the player.
\bigskip
\\
\subsubsection{ Subject function}\\
This functions asks the user to select the subject for the quiz.
\bigskip

\subsubsection{Compare Score}\\
This function compares the score of the players.
\bigskip
\\
\subsubsection{ List players:}\\
List function list all the players.

\section{SOURCE CODE-}
\subsection{IN C LANGUAGE:}
\\
\begin{lstlisting}[style=chystle]
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
#include<stdlib.h>
#include<string.h>
void show_record();
void reset_score();
void help();
void edit_score(float , char []);
void name();
void age();
void subject();
int main()
    {
    int countr,r,r1,count,i,n;
    float score;
    char choice;
    char playername[20];
    mainhome:

    printf("QUIZ GAME\n");
    printf("Lets play this game\n");
    printf("Press S to start the game\n");
    printf("Press V to view the highest score\n");

```
 printf("Press R to reset score\n");
 printf("Press H for help\n");
 printf("Press Q to quit\n");
 choice=toupper(getch());
 if (choice=='V')
{
show_record();
goto mainhome;
}
 else if (choice=='H')
{
help();getch();
goto mainhome;
}
else if (choice=='R')
{reset_score();
getch();
goto mainhome;}
else if (choice=='Q')
exit(1);
else if(choice=='S')
{
 system("cls");

printf("\n\tResister your name:");
 gets(playername);

system("cls");
printf("\n Welcome %s Quiz Game",playername);
printf("\n >> There are 2 rounds in Game");
printf("\n >> In first round you will be asked science\\
questions and in the second round maths questions");
printf("\n >> You have to select the correct option\\ from the given options");
printf("\n\n\n Press Y  to start the game!\n");
printf("\n Press any other key to return to the main menu!");
if (toupper(getch())=='Y')
    {
        goto home;
    }
else
    {
    goto mainhome;
   system("cls");
   }

 home:
 system("cls");
 count=0;
```

```
    for(i=1;i<=3;i++)
    {
   system("cls");
    r1=i;

    switch(r1)
      {
      case 1:
      printf("\n\nThe solar cell receives energy from?");
      printf("\n\nA.Sunlight\t\tB.earth\n\nC.moon\t\tD.lamp");
      if (toupper(getch())=='A')
         {
            printf("\n\nCorrect!!!");count++;
            getch();
            break;}
      else
           {
       printf("\n\nWrong!!! The correct answer\\
      is A.Sunlight");
getch();
 break;
 }

 case 2:
 printf("\n\n\nThe moon is a?");
 printf("\n\nA.planet\t\tB.object\n\nC.Satellite\t\tD.man");
 if (toupper(getch())=='C')
{printf("\n\nCorrect!!!");count++;
 getch();}
    else
   {printf("\n\nWrong!!! The correct answer is C.Satellite");
    getch();
    break;}

     case 3:
    printf("\n\n\nWe can see through easily ... objects.?");
    printf("\n\nA.translucent\t\tB.transparent\n\n\\
    C.opaque\t\tD.all");
    if (toupper(getch())=='B')
     {printf("\n\nCorrect!!!");count++;
          getch();
          break;}
      else
    {printf("\n\nWrong!!! The correct answer is B.transparent");
             getch();
             break;}

      case 4:
```

```
        printf("\n\n\nSun rises from?");
        printf("\n\nA.West\t\tB.east\n\nC.north\t\tD.south");
        if (toupper(getch())=='B')
           {printf("\n\nCorrect!!!");count++;
           getch();
            break;}
        else
  {printf("\n\nWrong!!! The correct answer is B.east");
     getch();
     break;}

        case 5:
        printf("\n\n\nWe live in which planet?");
        printf("\n\nA.mars\t\tB.earth\n\nC.jupiter\t\tD.saturn");
        if (toupper(getch())=='B')
              {printf("\n\nCorrect!!!");count++;
              getch();
               break;}
        else
      {printf("\n\nWrong!!! The correct answer is B.earth");
      getch();
       break;}}
         }

    if(count>=2)
    {goto test;}
    else
    {
    system("cls");
    printf("\n\nSORRY YOU ARE NOT ELIGIBLE TO\\
    PLAY THIS GAME, BETTER LUCK NEXT TIME");
    getch();
    goto mainhome;
    }
     test:
     system("cls");
     printf("\n\n\t*** CONGRATULATION %s you are\\
     eligible to play the Game ***",playername);
     printf("\n\n\n\n\t!Press any key to Start the Game!");
     if(toupper(getch())=='p')
        {goto game;}
game:
     countr=0;
     for(i=1;i<=10;i++)
     {system("cls");
     r=i;

     switch(r)
```

```
  {
  case 1:
  printf("\n\nThe sum of largest and smallest 2\\  \ digit number is?");
  printf("\n\nA.10\t\tB.99\n\nC.109\t\tD.55");
  if (toupper(getch())=='C')
     {printf("\n\nCorrect!!!");countr++;getch();
      break;getch();}
  else
        {printf("\n\nWrong!!! The correct answer is C.109");getch();
        goto score;
        break;}

  case 2:
  printf("\n\n\nMultiplication of 0 with any number?");
  printf("\n\nA.0\t\tB.10\n\nC.100\t\tD.1");
  if (toupper(getch())=='A')
     {printf("\n\nCorrect!!!");countr++;getch();
      break;}
  else
{printf("\n\nWrong!!! The correct answer is A.0");getch();
 goto score;
    break;
       }

  case 3:
  printf("\n\n\nAdditive inverse of a is ?");
  printf("\n\nA.a\t\tB.52\n\nC.-a\t\tD.0");
  if (toupper(getch())=='C')
  {printf("\n\nCorrect!!!");countr++;getch();
   break;}
  else
{printf("\n\nWrong!!! The correct answer is C.-a");getch();
goto score;
break;}

  case 4:
  printf("\n\n\nAdditive identity of a is?");
  printf("\n\nA.0\t\tB.10\n\nC.100\t\tD.99");
  if (toupper(getch())=='A')
     {printf("\n\nCorrect!!!");countr++;getch();
      break;}
  else
   {
    printf("\n\nWrong!!! The correct answer is A.0");getch();
   goto score;
     break;
      }
```

```
        case 5:
        printf("\n\n\nArea of rectangle is?");
        printf("\n\nA.l\t\tB.l*b\n\nC.b\t\tD.2lb");
        if (toupper(getch())=='B')
           {printf("\n\nCorrect!!!");countr++;getch(); break;}
        else
       {
       printf("\n\nWrong!!! The correct answer is B.l*b");
          getch();
          goto score;
             break;
              }}}
    score:
    system("cls");
    score=(float)countr*100000;
    if(score>0.00 && score<1000000)
    {
      printf("\n\n\t\tCONGRATULATION");
       printf("\n\t You won $%.2f",score);goto go;}

     else if(score==1000000.00)
    {
       printf("\n\n\n \t\tCONGRATULATION you win!!!");
       printf("\n\t\t You won $%.2f",score);
       printf("\t\t Thank You!!");
    }
     else
{
     printf("\n\n\nSORRY YOU DIDN'T WIN ANY CASH");
       printf("\n\t\t Thanks for your participation");
       printf("\n\t\t TRY AGAIN");goto go;}

    go:
    puts("\n\n Press Y if you want to play next game");
    puts(" Press any key if you want to go main menu");
    if (toupper(getch())=='Y')
       goto home;
    else
       {
       edit_score(score,playername);
       goto mainhome;}}}

 void show_record()
    {system("cls");
    char name[20];
    float scr;
    FILE *f;
    f=fopen("score.txt","r");
```

```
    fscanf(f,"%s%f",&name,&scr);
    printf("\n\n\t\t %s has secured the Highest \\
    Score %0.2f",name,scr);
    fclose(f);
    getch();}

void reset_score()
    {system("cls");
    float sc;
    char nm[20];
    FILE *f;
    f=fopen("score.txt","r+");
    fscanf(f,"%s%f",&nm,&sc);
    sc=0;
    fprintf(f,"%s,%.2f",nm,sc);
    fclose(f);}

void help()
    {system("cls");
    printf("\nHELP");
    printf("\nThere are two rounds in the game, science\\
    round and maths round");
    printf("\nIn maths round you will be asked a total of 5 questions");
    printf("\nYou will be given 4 options and you have to\\
    select the correct option");
    printf("\nYou will be asked questions continuously\\
    if you keep giving the right answers.");
    printf("\nNo negative marking for wrong answers");
    printf("\nThankyou for playing");}
    void subject(){
        printf("enter the subject");
        scanf("%ch",&subject);

    }
    void name(){
        scanf("%ch", &name);
        printf("name %ch", name);
    }
    void age(){
        scanf("%d",&age);
        printf("age %d", age);
    }

void edit_score(float score, char plnm[20])
    {system("cls");
    float sc;
    char nm[20];
    FILE *f;
```

```
    f=fopen("score.txt","r");
    fscanf(f,"%s%f",&nm,&sc);
    if (score>=sc)
      { sc=score;
        fclose(f);
        f=fopen("score.txt","w");
        fprintf(f,"%s\n%.2f",plnm,sc);
        fclose(f);}}
\end{lstlisting}
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\section{Output in C language-}
\newpage
\begin{figure}
\centering
\includegraphics[width=\linewidth]{Screenshot_20221123_035453.png}
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\includegraphics[width=\linewidth]{Screenshot_20221123_035613.png}
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\begin{figure}
\section{Profiling and debugging}
\centering
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\begin{figure}
    \centering
    \includegraphics[width=\linewidth]{Screenshot (9).png}
    \includegraphics[width=\linewidth]{Screenshot (10).png}
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\end{document}
```

Python Code

```
import os
score=0
playername=""
ch =''
os.system('cls')
while(True):
    # global ch
    print("QUIZ GAME")
    print("Lets play this game")
    print("Press S to start the game")
    print("Press V to view the highest score")
    print("Press R to reset score")
    print("Press H for help")
    print("Press Q to quit")
    ch=input().upper()
    if(ch=='S'):
        print("\n\tResister your name:")
        playername = input()
        os.system('cls')


        print("Welcome",playername, "Quiz Game")
        print(">> There are 2 rounds in Game")
        print(">> In first round you will be asked science questions
and in the second round maths questions")
        print(">> You have to select the correct option from the given
options")
        print("\n\nPress Y  to start the game!")
        print("Press any other key to return to the main menu!")
        ch= input()
        if (ch.upper())=='Y':
            # home()
            print("Y")
        else:
            # mainhome(ch)
            continue
        os.system("cls")

    elif ch=='V':
        # show_record()
        print("show_record")
```

```
        ch = input()
        # mainhome(ch)
        continue
    elif ch=='H':
        # help()
        print("H")
        ch = input()
        # mainhome(ch)
        continue
    elif (ch=='R'):
        print("reset_score()")
        ch = input()
        # mainhome(ch)
        continue
    elif (ch=='Q'):
        print("Q")
        # exit(1)


def home():
    os.system("cls")
    count=0
    for i in range(1,4):
        r1=i
        os.system("cls")
        match(r1):
            case 1:
                print("\n\nThe solar cell receives energy from?")
                print("\n\nA.Sunlight\t\tB.earth\n\nC.moon\t\tD.lamp")
                ch = input().upper()
                if (ch=='A'):

                        print("\n\nCorrect!!!")
                        count+=1
                        input()
                        break

                else:

                        print("\n\nWrong!!! The correct answer is
A.Sunlight");
                        ch = input()
                        break
```

```
            case 2:
                print("\n\n\nThe moon is a?");

print("\n\nA.planet\t\tB.object\n\nC.Satellite\t\tD.man");
                if (.upper()(input())=='C')
                    print("\n\nCorrect!!!");count+=1;
                    input();
                    break;
                else
                    print("\n\nWrong!!! The correct answer is
C.Satellite");
                    input();
                    break;

            case 3:
            print("\n\n\nWe can see through easily ... objects.?");

print("\n\nA.translucent\t\tB.transparent\n\nC.opaque\t\tD.all");
            if (.upper()(input())=='B')
                print("\n\nCorrect!!!");count+=1;
                input();
                break;
            else
                print("\n\nWrong!!! The correct answer is
B.transparent");
                input();
                break;

            case 4:
            print("\n\n\nSun rises from?");
            print("\n\nA.West\t\tB.east\n\nC.north\t\tD.south");
            if (.upper()(input())=='B')
                print("\n\nCorrect!!!");count+=1;
                input();
                break;
            else
                print("\n\nWrong!!! The correct answer is B.east");
                input();
                break;

            case 5:
```

```
            print("\n\n\nWe live in which planet?");
            print("\n\nA.mars\t\tB.earth\n\nC.jupiter\t\tD.saturn");
            if (.upper()(input())=='B')
                print("\n\nCorrect!!!");count+=1;
                input();
                    break;
            else
                print("\n\nWrong!!! The correct answer is B.earth");
                input();
                break;


    if(count>=2)
    goto test;
    else

    os.system('cls')
    print("\n\nSORRY YOU ARE NOT ELIGIBLE TO PLAY THIS GAME, BETTER
LUCK NEXT TIME");
    input();
    goto mainhome;

     test:
     os.system('cls')
     print("\n\n\t*** CONGRATULATION %s you are eligible to play the
Game ***",playername);
     print("\n\n\n\n\t!Press any key to Start the Game!");
     if(.upper()(input())=='p')
        goto game;
game:
     countr=0;
     for(i=1;i<=10;i++)
     os.system('cls')
     r=i;

     match(r)

        case 1:
        print("\n\nThe sum of largest and smallest 2 digit number
is?");
        print("\n\nA.10\t\tB.99\n\nC.109\t\tD.55");
        if (.upper()(input())=='C')
            print("\n\nCorrect!!!");countr++;input();
```

```
            break;input();
        else
               print("\n\nWrong!!! The correct answer is
C.109");input();
               goto score;
               break;

        case 2:
        print("\n\n\nMultiplication of 0 with any number?");
        print("\n\nA.0\t\tB.10\n\nC.100\t\tD.1");
        if (.upper()(input())=='A')
            print("\n\nCorrect!!!");countr++;input();
             break;
        else
               print("\n\nWrong!!! The correct answer is A.0");input();
              goto score;
               break;


        case 3:
        print("\n\n\nAdditive inverse of a is ?");
        print("\n\nA.a\t\tB.52\n\nC.-a\t\tD.0");
        if (.upper()(input())=='C')
            print("\n\nCorrect!!!");countr++;input();
             break;
        else
               print("\n\nWrong!!! The correct answer is
C.-a");input();
               goto score;
               break;

        case 4:
        print("\n\n\nAdditive identity of a is?");
        print("\n\nA.0\t\tB.10\n\nC.100\t\tD.99");
        if (.upper()(input())=='A')
            print("\n\nCorrect!!!");countr++;input();
             break;
        else

                print("\n\nWrong!!! The correct answer is
A.0");input();
               goto score;
               break;
```

```
    case 5:
    print("\n\n\nArea of rectangle is?");
    print("\n\nA.l\t\tB.l*b\n\nC.b\t\tD.2lb");
    if (.upper()(input())=='B')
        print("\n\nCorrect!!!");countr++;input(); break;
    else

                print("\n\nWrong!!! The correct answer is B.l*b");
            input();
            goto score;
            break;

score:
os.system('cls')
score=(float)countr*100000;
if(score>0.00 && score<1000000)

   print("\n\n\t\tCONGRATULATION");
     print("\n\t You won $%.2f",score);goto go;

 else if(score==1000000.00)

    print("\n\n\n \t\tCONGRATULATION you win!!!");
    print("\n\t\t You won $%.2f",score);
    print("\t\t Thank You!!");

 else

 print("\n\n\nSORRY YOU DIDN'T WIN ANY CASH");
    print("\n\t\t Thanks for your participation");
    print("\n\t\t TRY AGAIN");goto go;

go:
puts("\n\n Press Y if you want to play next game");
puts(" Press any key if you want to go main menu");
if (.upper()(input())=='Y')
    goto home;
else

    edit_score(score,playername);
    goto mainhome;
```

```
def show_record():
    name ="";
    scr = 0;
    FILE *f;
    f=fopen("score.txt","r");
    fscanf(f,"%s%f",&name,&scr);
    print("\n\n\t\t %s has secured the Highest Score %0.2f",name,scr);
    fclose(f);
    input();
    os.system('cls')

def reset_score():
    os.system('cls')
    float sc;
    char nm[20];
    FILE *f;
    f=fopen("score.txt","r+");
    fscanf(f,"%s%f",&nm,&sc);
    sc=0;
    fprint(f,"%s,%.2f",nm,sc);
    fclose(f);

def help()
    system("cls")
    print("\nHELP")
    print("\nThere are two rounds in the game, science round and maths
round")
    print("\nIn maths round you will be asked a total of 5 questions")
    print("\nYou will be given 4 options and you have to select the
correct option")
    print("\nYou will be asked questions continuously if you keep
giving the right answers.")
    print("\nNo negative marking for wrong answers")
    print("\nThankyou for playing")
    print("\nQuiz prepared by Ayushi Kesharwani")

def edit_score(float score, char plnm[20])
    os.system('cls')
    float sc;
    char nm[20];
    FILE *f;
    f=fopen("score.txt","r");
```

```
    fscanf(f,"%s%f",&nm,&sc);
    if (score>=sc)
        sc=score;
         fclose(f);
         f=fopen("score.txt","w");
         fprint(f,"%s\n%.2f",plnm,sc);
         fclose(f);
```

```
Welcome  Quiz Game
>> There are 2 rounds in Game
>> In first round you will be asked science questions and in the second round maths questions
>> You have to select the correct option from the given options


Press Y  to start the game!

Press any other key to return to the main menu!QUIZ GAME
Lets play this game
Press S to start the game
Press V to view the highest score
Press R to reset score
Press H for help
Press Q to quit
```

The solar cell receives energy from?

A.Sunlight B.earth

C.moon D.lamp