



PES UNIVERSITY
(Established under Karnataka Act No. 16 of 2013)
100 Ft. Road, BSK III Stage, Bengaluru – 560 085

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Title: Problem Solving with C Laboratory		
Course code: UE19CS152		
Semester : II sem	Section: L	Team Id: 14
SRN: PES1UG19EC233	Name: Vivek Agarwal	
SRN: PES1UG19EC208	Name: Pranav Deshpande	
SRN: PES1UG19ME355	Name: Vyush Yashas	
SRN: PES1UG19EC173	Name: Nakul Mogale	

PROJECT REPORT

Problem Statement:

To create a chatbot which interacts with the user.

Description:

The goal of the chatbot is to casually interact with the user and provide some entertainment and help to the user.

The chatbot first interacts with the user casually about name of user and user's feelings/mood.

Based on user's input the chatbot replies accordingly and later it provides a menu containing different entertainment or help options like facts, games, songs, reading, calculator and time and on selecting one of them it leads you right to it.

C-concepts used:

- > *Functions* (delay, facts, game, song, reading, calculator, time, menu, start)
- > *Switch* (for user to select the entertainment/help they need)
- > *If else* (for the chatbot to give appropriate reply based on user's inputs and to check if answers of user is correct is facts entertainment)
- > *String functions* (for chatbot to understand inputs of user with similar meaning and to reply accordingly.
Ex. User: hey/hi/hello
Chatbot: hello :)
Also, to compare, concatenate strings.
- > *Loops* (to add \n at the end of line got from from file)
- > *File handling* (to create questions and answers for the facts entertainment)
- > *Structures* (to provide local variables for time i.e hrs, min, sec)

Learning Outcome:

- > *Goto statements* (displays menu again, allows user to make new choices)
- > *System functions* (to access applications of the system)
- > *URL and links* (to directly lead to application chosen by user)
- > *Windows.h* (to access functions of windows system)
- > *Time.h* (to access functions which manipulate date and time)

This project has helped in learning about group/team work, handling errors in codes, learning new topics, presentation skills etc.

Output Screenshots

```
C:\Users\PVD\Desktop\chatbot.exe
Jasmine: Welcome pvd, How are you doing?
pvd: good
Jasmine: Thats nice! I'm doing great too.
Jasmine: Need some entertainment?
pvd: no
Jasmine: C'mon it will be fun
pvd: yes
Jasmine: Hello pvd , What would you like to do today?
Oh and don't forget to be connected to the internet
Need help !! Here is what you can do
1) A quick fact check
2)Play a game
3)Read about something
4)Play some song
5)Calculate
6)Check Time
7)Exit

pvd:2
Jasmine:What game would you like to play?
1)Snake game
2)Tic Tac Toe
3)Pacman
4)Go back to main menu

pvd: 1
'stick' is not recognized as an internal or external command,
operable program or batch file.
1) A quick fact check
2)Play a game
3)Read about something
4)Play some song
5)Calculate
6)Check Time
7)Exit

pvd:2
Jasmine:What game would you like to play?
1)Snake game
2)Tic Tac Toe
3)Pacman
4)Go back to main menu

pvd: 2
'stick' is not recognized as an internal or external command,
operable program or batch file.
1) A quick fact check
2)Play a game
3)Read about something
4)Play some song
5)Calculate
6)Check Time
7)Exit

pvd:3
```

Fig1. Starting coversaiton and menu.

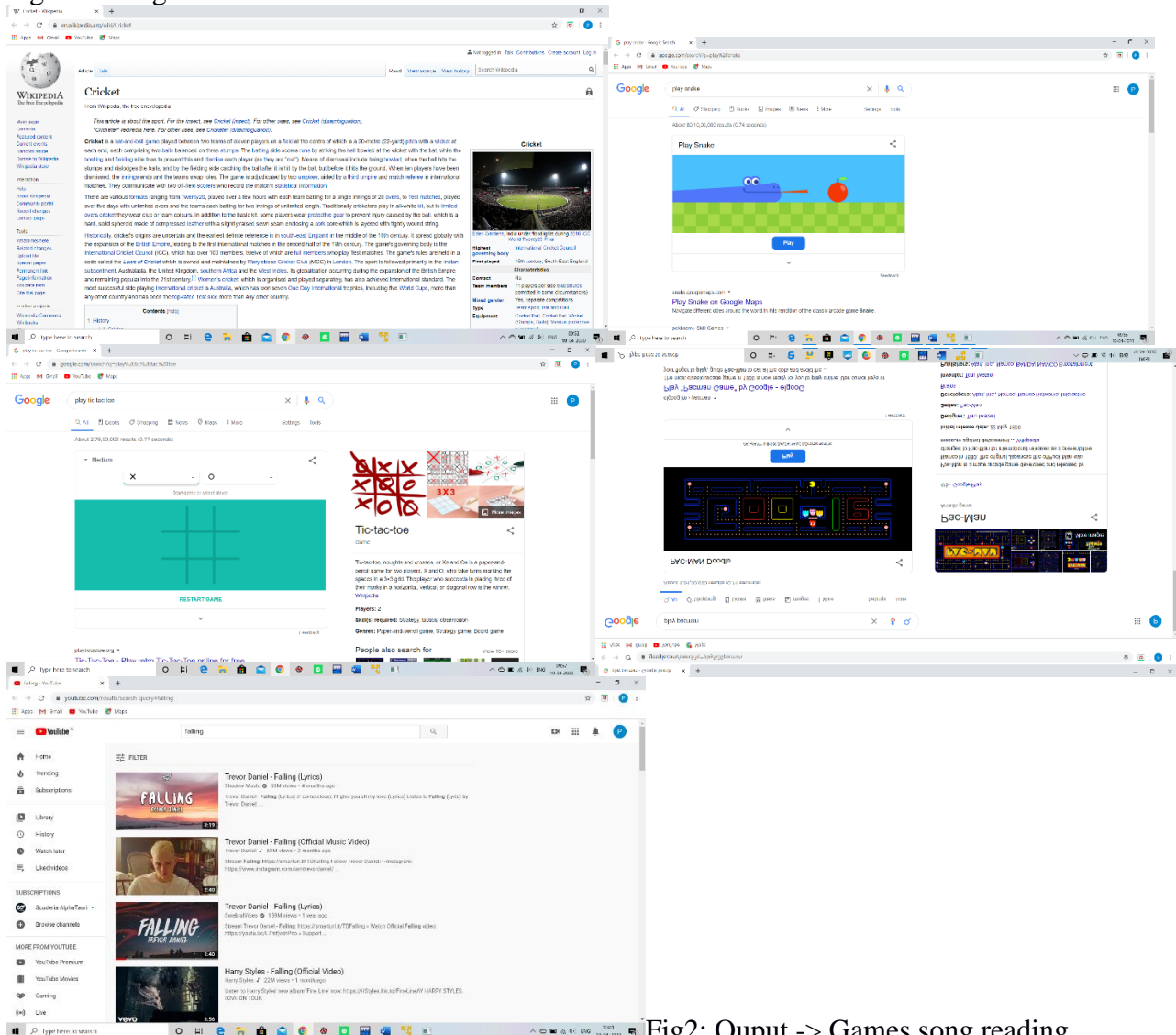


Fig2: Ouput -> Games,song,reading.

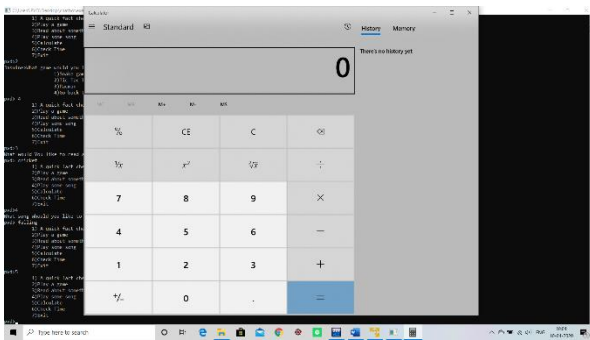


Fig. 3 Calculator

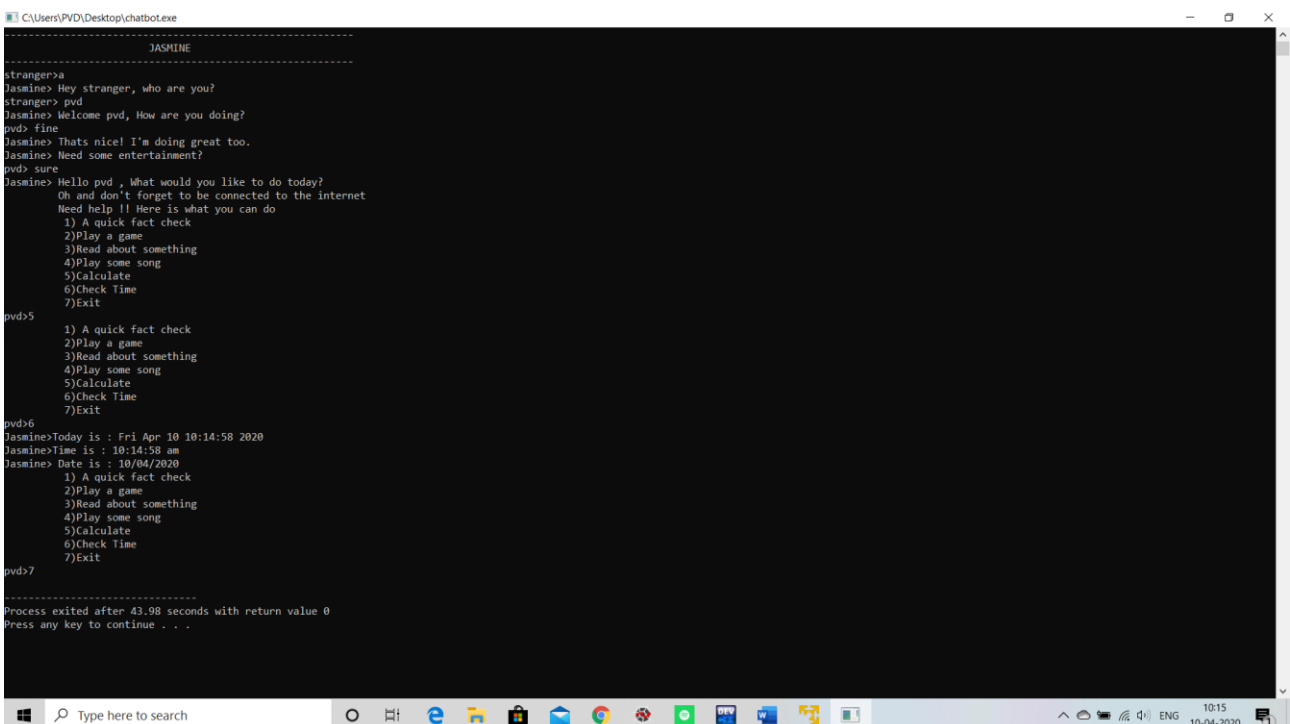
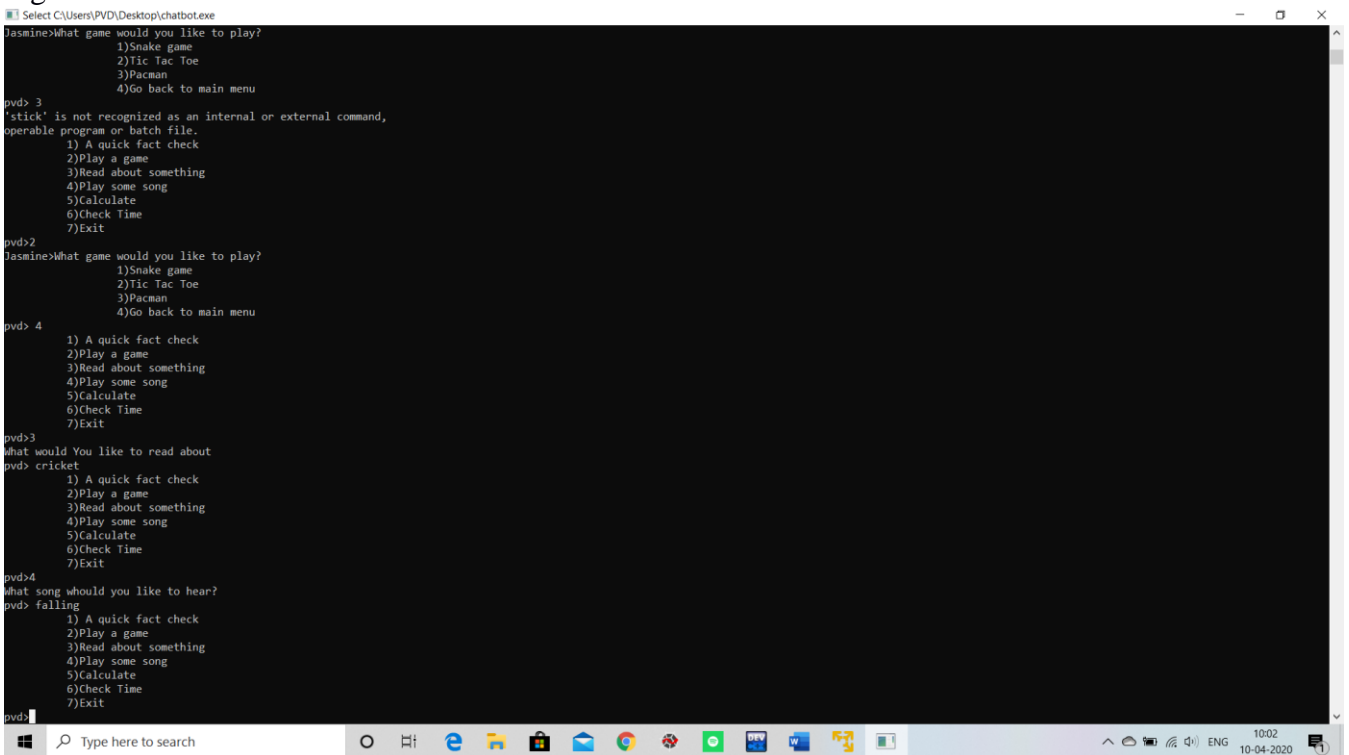


Fig4: Selecting options of entertainment (game, song, read, calculate and time)

```
C:\Users\PVD\Desktop\Chatbot project\chatbot.exe

-----
JASMINE
-----

stranger>hi
Jasmine> Hey stranger, who are you?
stranger> pvd
Jasmine> Welcome pvd, How are you doing?
pvd> good
Jasmine> Thats nice! I'm doing great too.
Jasmine> Need some entertainment?
pvd> yes
Jasmine> Hello pvd , What would you like to do today?
Oh and don't forget to be connected to the Internet
Need help !! Here is what you can do
1) A quick fact check
2) Play a game
3) Read about something
4) Play some song
5) Calculate
6) Check Time
7) Exit
pvd>1
Jasmine>World's largest country is?
pvd>russia
Jasmine>That's right!!
Jasmine>Manna check another fact?(yes/no)
pvd> yes
Jasmine>Name the egg laying mammal
pvd>dog
Jasmine>The right answer is platypus
Jasmine>Manna check another fact?(yes/no)
pvd> yes
Jasmine>How many continents are present in the world?
pvd>3
Jasmine>The right answer is 7
Jasmine>Manna check another fact?(yes/no)
pvd> yes
Jasmine>In which sport do the players throw the ball into hoops?
pvd>basketball
Jasmine>That's right!!
Jasmine>Manna check another fact?(yes/no)
pvd> no
1) A quick fact check
2) Play a game
3) Read about something
4) Play some song
5) Calculate
6) Check Time
7) Exit
pvd>
```

Fig5: Facts (Q&A)

```
Select C:\Users\PVD\Desktop\Chatbot project\chatbot.exe

-----
JASMINE
-----

stranger>hey
Jasmine> Hey stranger, who are you?
stranger> pvd
Jasmine> Welcome pvd, How are you doing?
pvd> good
Jasmine> Thats nice! I'm doing great too.
Jasmine> Need some entertainment?
pvd> no thank you
Jasmine> C'mon it will be fun
pvd> nope
Jasmine> Okay. You have a great day
Jasmine> See ya
pvd> _
```

Fig 6. Denying entertainment

Name and Signature of the Faculty