

Project Report

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HAND CRICKET

A PROJECT REPORT

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Under the guidance of

Sindhuja M

In partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

In

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**With specialization in Artificial Intelligence & Machine
Learning**

Of

FACULTY OF ENGINEERING AND TECHNOLOGY



S.R.M. Nagar, Kattankulathur, Kancheepuram District

SRM UNIVERSITY

(Under Section 3 of UGC Act, 1956)

BONAFIDE CERTIFICATE

Certified that this project report titled “HAND CRICKET” is the bonafide work of “SHASHWAT PRASAD [RA2111026010143], ROSHAN PRIYADARSHI [RA2111026010139], SARTHAK DWIVEDI [RA2111026010122]”, who carried out the project work under our supervision. Certified further, that to the best of our knowledge the work reported herein does not form any other project report or dissertation based on which a degree or award was conferred on an earlier occasion on this or any other candidate.

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ABSTRACT

Due to rise in covid case there is lockdown in many places across the world. People were feeling bored in home alone as there is nothing to do. For many people hand cricket is a hobby to play during our school time. So, we basically designed this application that person can enjoy alone with their computer/laptop. In this game,

- This is a game of Hand Cricket that is played against a computer opponent.
- A computer opponent will be playing against the user.
- The user will get to choose his number between 0-6 which he wants to place against the opponent's number which is randomly generated.
- Unlimited matches can be played.
- Unlimited balls that can generate interests in playing the game.
- This application is absolutely **“FREE”**.

Our aim is to make people happy with their childhood memories and make today's children familiar with hand cricket.

ACKNOWLEDGEMENT

We would like to express our deepest gratitude to our guide, Sindhuja M for her valuable guidance, consistent encouragement, personal caring, timely help and providing me and my team with an excellent atmosphere for doing mini project. All through the work, despite her busy schedule, she has extended cheerful and cordial support to us for completing this mini project work.

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INTRODUCTION

As we all know that all children have hobby to play cricket, but due to increasing infrastructure free lands are converted into complexes, due to which there is no free space left for children to play. We basically designed this program for those children who have love for cricket.

Objectives

Due to busy world, no one is free to play together. Everyone is just busy with their works. So, we basically designed this application for those people who feels lonely. They can enjoy their moments if no one was there.

Here person can play unlimited matches in which there is no limit in balls. So, that can build interest in playing the game.

SYSTEM SPECIFICATION

Operating System – Window / IOS

Processor – Intel core i7 / M1 chip

RAM – 8 / 16 GB

ROM – 1 TB (SSD)

ALGORITHM

Step – 1 : Start

Step – 2 : Enter Player Name

Step – 3 : Select Heads or Tails

Step – 4 : Generate a Random Number

Step – 5 : If Enter = Random Outcome

 You won the toss

 else

 Bot won the toss

Step – 6 : Now user / Bot will select Batting / Bowling

Step – 7 : Enter a Number

Step – 8 : If Enter Number = Random Outcome

 Display Out

 else

 Goto step 7

Step – 9 : In 2nd Innings, goto step 7

Step – 10 : If Target > 2nd innings runs

 Display 1st innings batman's team won the match

 else if Target = 2nd innings runs

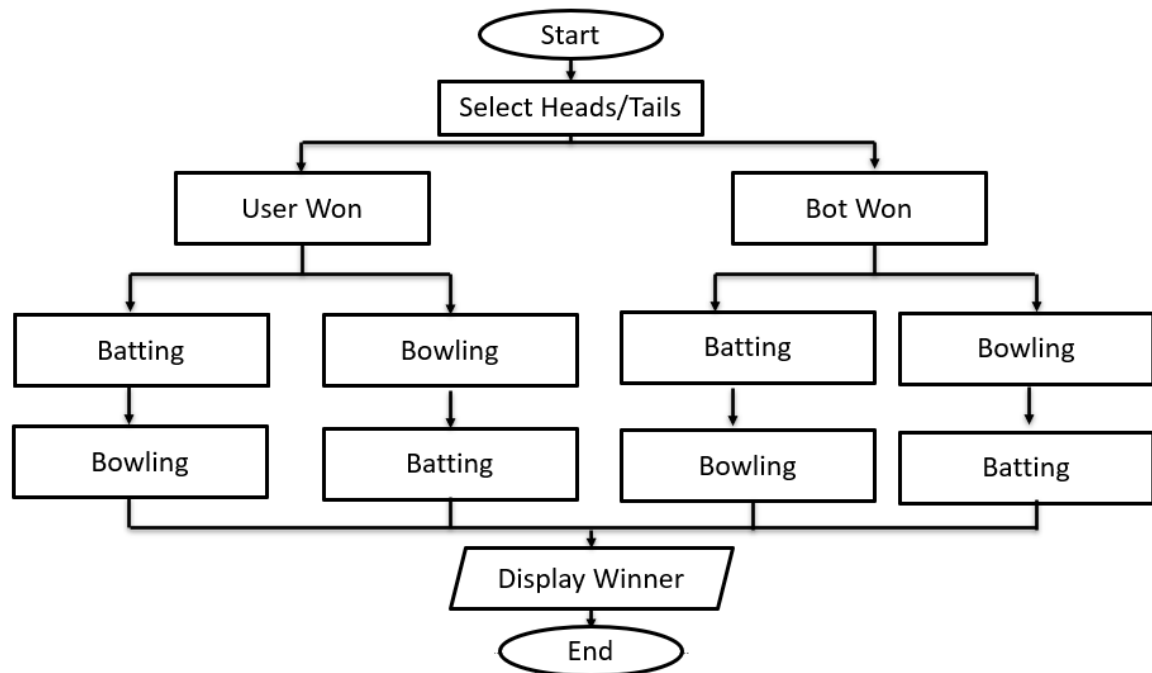
 Display Match Tie

 else

 Display 2nd innings batman's team won the match

Step – 11 : End

FLOWCHART



SOURCE CODE

```
#include<stdio.h>
#include<stdlib.h>
#include<time.h>
void batting_player();
void bowling_player();
void end();
void game();
void play_again();
int main()
{
    system("COLOR E4");
    game();
}
void game()
{
    printf("\n\n\n");
    printf("-----\n");
    printf("Welcome to the Game of Hand\n");
    printf("cricket\n\n");
    printf("Powered by FAANG\n");
```

```

printf("-----\n");
printf("\n");
printf("\n");
char name[100];
printf("Enter Player Name - ");
scanf("%s",name);
printf("\n");
printf("-----\n");
printf("Toss Time\n");
printf("-----\n");
printf("\n");
int choice_toss;
printf("Enter your choice (1-Heads Or 2-Tails) - ");
scanf("%d",&choice_toss);
int lower=1,upper=2,toss;
srand(time(NULL));
toss=(rand()%(upper-lower+1)+lower);
if(toss==choice_toss)
{
    printf("\n You won the toss\n\n");
    int choice_bat_ball;
    printf("Choose batting or bowling (1-Batting Or 2-
Bowling) - ");
    scanf("%d",&choice_bat_ball);
    if(choice_bat_ball==1)
        batting_player();
    else
        bowling_player();
}
else
{
    int bot_choice,lower=1,upper=2;
    printf("\n Bot won the toss\n\n");
    srand(time(NULL));
    bot_choice=(rand()%(upper-lower+1)+lower);
    if(bot_choice==1)
    {
        printf("Bot is batting");
        bowling_player();
    }
    else
    {
        printf("Bot is bowling");
        batting_player();
    }
}
}
void batting_player()

```

```

{
    printf("\n\n");
    printf("-----\n");
    printf("First Inning\n");
    printf("-----\n");
    int score_1,total_1=0;
    a:
    printf("\n                Enter The Run You Want To Score - ");
    scanf("%d",&score_1);
    int score_2,lower=0,upper=6;
    srand(time(NULL));
    score_2=(rand()%(upper-lower+1)+lower);
    printf("\n                Bot Threw - %d",score_2);
    if(score_1!=score_2)
    {
        total_1+=score_1;
        printf("\n                Total Runs Scored - %d",total_1);
        printf("\n");
        goto a;
    }
    else
    {
        printf("\n");
        printf("\n                Out");
        printf("\n                Target - %d",(total_1)+1);
        printf("\n\n");
        printf("-----\n");
        printf("Second Inning\n");
        printf("-----\n");
        int score_3,total_2=0;
        b:
        printf("\n                Enter The Run You Want To Ball - ");
        scanf("%d",&score_3);
        int score_4,lower=0,upper=6;
        srand(time(NULL));
        score_4=(rand()%(upper-lower+1)+lower);
        printf("\n                Run Scored By Bot - %d",score_4);
        if(score_3!=score_4)
        {
            total_2+=score_4;
            if(total_1>=total_2)
            {
                printf("\n                Total Runs Scored - 
%d",total_2);
                printf("\n");
                goto b;
            }
        }
        else

```

```

        {
            printf("\n");
            printf("\n                Bot Won The Match");
            printf("\n");
            play_again();
        }
    }
    else(score_3==score_4);
    {
        printf("\n");
        printf("\n                Bot is Out");
        if(total_1>total_2)
        {
            printf("\n                You Won The Match");
            printf("\n");
            play_again();
        }
        else if(total_1==total_2)
        {
            printf("\n                Match is Tie");
            printf("\n");
            play_again();
        }
        else
        {
            printf("\n                Bot Won The Match");
            printf("\n");
            play_again();
        }
    }
}

void bowling_player()
{
    printf("\n\n");
    printf("                ----- \n");
    printf("                First Inning\n");
    printf("                ----- \n");
    int score_1,total_1=0;
    a:
    printf("\n                Enter The Run You Want To Ball - ");
    scanf("%d",&score_1);
    int score_2,lower=0,upper=6;
    srand(time(NULL));
    score_2=(rand()%(upper-lower+1)+lower);
    printf("\n                Run Scored By Bot - %d",score_2);
    if(score_1!=score_2)
    {

```

```
total_1+=score_2;
printf("\n\n\t\t\t\t\tTotal Runs Scored - %d",total_1);
printf("\n");
goto a;
}
else
{
    printf("\n");
    printf("\n\n\t\t\t\t\tOut");
    printf("\n\n\t\t\t\t\tTarget - %d",(total_1)+1);
    printf("\n\n");
    printf("\n\n\t\t\t\t\t-----\n");
    printf("\n\n\t\t\t\t\tSecond Inning\n");
    printf("\n\n\t\t\t\t\t-----\n");
    int score_3,total_2=0;
b:
    printf("\n\n\t\t\t\t\tEnter The Run You Want To Score - ");
    scanf("%d",&score_3);
    int score_4,lower=0,upper=6;
    srand(time(NULL));
    score_4=(rand()%(upper-lower+1)+lower);
    printf("\n\n\t\t\t\t\tBot Threw - %d",score_4);
    if(score_3!=score_4)
    {
        total_2+=score_3;
        if(total_1>=total_2)
        {
            printf("\n\n\t\t\t\t\tTotal Runs Scored - %d",total_2);
            printf("\n");
            goto b;
        }
        else
        {
            printf("\n");
            printf("\n\n\t\t\t\t\tYou Won The Match");
            printf("\n");
            play_again();
        }
    }
}
else(score_3==score_4);
{
    printf("\n");
    printf("\n\n\t\t\t\t\tBot is Out");
    if(total_1>total_2)
    {
        printf("\n\n\t\t\t\t\tBot Won The Match");
        printf("\n");
    }
}
```

```

        play_again();
    }
    else if(total_1==total_2)
    {
        printf("\n                Match is Tie");
        printf("\n");
        play_again();
    }
    else
    {
        printf("\n                You Won The Match");
        printf("\n");
        play_again();
    }
}
}

void play_again()
{
    int choice_1;
    printf("\n                Do You Want To Play The Game Once More ?
(1-Yes Or 2-No) - ");
    scanf("%d",&choice_1);
    switch(choice_1)
    {
        case 1:
            game();
            break;
        case 2:
            end();
            break;
    }
}

void end()
{
    printf("\n\n");
    printf("\n                -----");
    printf("\n                Hope You Enjoyed The Game");
    printf("\n                Thank You");
    printf("\n                -----");
    printf("\n\n");
    exit(1);
}

```

RESULT & EXPLANATION

```
-----  
Welcome to the Game of Hand cricket  
      Powered by FAANG  
-----  
  
Enter Player Name -
```

Colour used:
E4
Where E – Yellow
(Background)
4 – Red (Text)

This will be your opening
page
Where you have to enter
the player name

```
-----  
Welcome to the Game of Hand cricket  
      Powered by FAANG  
-----  
  
Enter Player Name - Sarthak  
  
-----  
Toss Time  
-----  
  
Enter your choice (1-Heads Or 2-Tails) -
```

Just after entering
the name
It will show toss
time

In toss time
You have to choose 1
for Heads & 2 for Tails

```

-----
Welcome to the Game of Hand cricket
-----
          Powered by FAANG
-----

Enter Player Name - Sarthak

-----
Toss Time
-----

Enter your choice (1-Heads Or 2-Tails) - 1

You won the toss

Choose batting or bowling (1-Batting Or 2-Bowling) -

```

As you select your choose
By random function it will show any one option
If your option and random number is same then
you won the toss and then you can choose
whether to bat or ball
Else you loss the toss and bot will choose bat or
bowl

```

-----
Welcome to the Game of Hand cricket
-----
          Powered by FAANG
-----

Enter Player Name - Sarthak

-----
Toss Time
-----

Enter your choice (1-Heads Or 2-Tails) - 1

Bot won the toss

Bot is bowling

-----
First Inning
-----

Enter The Run You Want To Score -

```

```

-----
First Inning
-----

Enter The Run You Want To Score - 6
Bot Threw - 5
Total Runs Scored - 6
Enter The Run You Want To Score - 6
Bot Threw - 0
Total Runs Scored - 12
Enter The Run You Want To Score - 6
Bot Threw - 0
Total Runs Scored - 18
Enter The Run You Want To Score - 6
Bot Threw - 4
Total Runs Scored - 24
Enter The Run You Want To Score - 6
Bot Threw - 0
Total Runs Scored - 30
Enter The Run You Want To Score - 6
Bot Threw - 3
Total Runs Scored - 36
Enter The Run You Want To Score - 6
Bot Threw - 0
Total Runs Scored - 42
Enter The Run You Want To Score - 6
Bot Threw - 0
Total Runs Scored - 48
Enter The Run You Want To Score - 6
Bot Threw - 3
Total Runs Scored - 54
Enter The Run You Want To Score - 6
Bot Threw - 6
Out
Target - 55

-----
Second Inning
-----

```

So let begin with first inning
Just any entering number it will
count as run/ball threw to out
If number and random number are
same then batsman will be out
Else innings go on

When the batsman will out
it will automatedly show
the target for second inning


```

-----
Second Inning
-----

Enter The Run You Want To Ball - 6
Run Scored By Bot - 2
Total Runs Scored - 2

Enter The Run You Want To Ball - 6
Run Scored By Bot - 5
Total Runs Scored - 7

Enter The Run You Want To Ball - 6
Run Scored By Bot - 1
Total Runs Scored - 8

Enter The Run You Want To Ball - 6
Run Scored By Bot - 4
Total Runs Scored - 12

Enter The Run You Want To Ball - 6
Run Scored By Bot - 0
Total Runs Scored - 12

Enter The Run You Want To Ball - 6
Run Scored By Bot - 4
Total Runs Scored - 16

Enter The Run You Want To Ball - 6
Run Scored By Bot - 0
Total Runs Scored - 16

Enter The Run You Want To Ball - 6
Run Scored By Bot - 3
Total Runs Scored - 19

Enter The Run You Want To Ball - 6
Run Scored By Bot - 3
Total Runs Scored - 22

Enter The Run You Want To Ball - 6
Run Scored By Bot - 6

Bot is Out
You Won The Match

Do You Want To Play The Game Once More ? (1-Yes Or 2-No) -

```

Now second inning begin
Again you have enter
number
If enter number is same as
random number innings end
there
Else innings go on

If run scored in second
inning is more than first
inning then you second
inning team won the
match
Else
First inning team won the
match

```

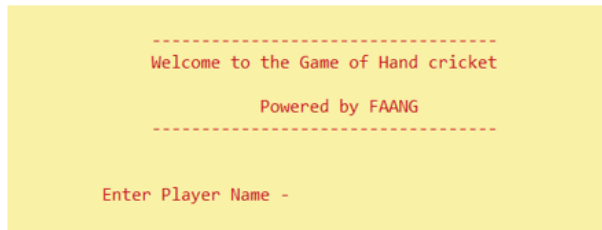
Bot is Out
You Won The Match

Do You Want To Play The Game Once More ? (1-Yes Or 2-No) -

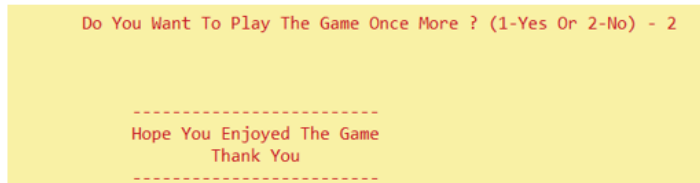
```

If you enter 1 then
game will start again
Else application will
end

After match is over
Application will ask
whether to play again or
not



After entering 1
Game begin once
again



After entering 2
Application will end
with sweet note

REFERENCES

- CodeChef
- JavaTpoint
- W3 School
- Greekworld
- Stack exchange
- GeeksforGeeks

COMPILER USED

- VS Code
- Code Blocks
- Code Chef
- GDB Online

Conclusion

Hand cricket is the major interest for many people since their childhood. Whenever we are alone, we can enjoy it with a computer during our free time and it will make our free time into fun time.

Here we used random function, nested if-else and many more for designing this program which makes it more interesting.

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THANK YOU