

## MINI PROJECT ON BANKING SYSTEM LATEX CODE-

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\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{0801CS211052}}
\fancyhead[R]{\large\bf{Khushi Jain}}
\begin{center}
\title{MINI PROJECT ON BANKING SYSTEM}
\end{center}
\\
\\
\\
\begin{center}
\section{objective}\\
This report is based on real life banking system which allows user to attain all the banking
features like deposit amount,withdraw amount,transfer amount etc.
\\
\\bigskip
\section{statistical information}\\
total number of line in c code= 166 lines\\
total time required=18 hours\\
total functions=9 functions\\
\pagebreak

\end{center}
\section{DEFINE FUNCTIONS-}\\
\\

\subsubsection{ Deposit function:}\\
deposit function shows how much amount you deposit to your bank account.\\ total amount
is the summation of deposited amount and balance.\\
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\\
\subsubsection{ Withdraw function:}\\
withdraw functions means the amount that has been debited from your account.\\total
amount is the subtraction of amount present and withdraw money.\\
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\subsection{ Transfer function:}\\
Transfer functions shows the amount the money that you transfer from one account to
another.\\
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\\
\subsection{ Checkdetails function:}\\
this function shows all the details like total amount,total deposited amount,\\total withdrawal
amount ,transferred amount etc.\\
\bigskip
\\
\subsection{ Last function:}\\
Exit functions shows that you clearly performed all the activites and gives the summary for
your performed task.\\
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\\
\subsection{ Create an account Function:}\\
This functions takes the details of a customer like their name,mobile number to create a new
account in a bank.\\
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\\
\subsection{ Account number function:}\\
This functions takes an account number from the user.\\
\bigskip
\\
\subsection{ Select bank function:}\\
This function help us to choose a bank in which you want to open an account.\\
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\subsection{ List function:}\\
List function calls the function one by one.you can call whatever function you wanna use.\\

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\section{SOURCE CODE-}
\subsection{IN C LANGUAGE:}
\\
\begin{lstlisting}[style=chystle]
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
int list();
void deposit();
void transfer();
void withdraw();
void checkdetail();
void last();
void create_an_account();
void acc_num();

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void select_bank();
int totalamount=1000,amount,amo,totaldeposit=0,totalwithdraw=0,tr;
int totaltr=0;
int acc;
char name[50];
int main()
{
    //clrscr();
    //printf("ENTER YOUR NAME:\n");
    //gets(a);
    //printf("ENTER THE ACCOUNT NUMBER:");
    //scanf("%d",&acc);
    //getchar();
    printf("select bank:\n");
    select_bank();
while(1)
{
    //clrscr();
    switch(list())
    {
        case 0:
            create_an_account();
            break;
        case 1:
            acc_num();
            break;
        case 2:
            deposit();
            totaldeposit+=amount;
            break;
        case 3:
            withdraw();
            if(amo<=totalamount)
            totalwithdraw+=amo;
            break;
        case 4:
            transfer();
            if(tr<=totalamount)
            totaltr+=tr;
            break;
        case 5:
            checkdetail();
            break;
        case 6:
            // clrscr();
            last();
            getch();
            exit(0);
    }
}

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        default:
            printf("\n invalid choice:");
    } //end of switch
    getch();
} //end of while
return 0;
}

int list()
{
    int ch;
    printf("\n0. create an account:");
    printf("\n1. account number:");
    printf("\n2. deposit amount:");
    printf("\n3. withdraw amount:");
    printf("\n4. transfer amount:");
    printf("\n5. check detail:");
    printf("\n6. exit");
    printf("\n enter your choice:");
    scanf("%d",&ch);
    return(ch);
}

void deposit()
{
    printf("enter the amount you want to deposit:");
    scanf("%d",&amount);
    totalamount+=amount;
}

void withdraw(){
    printf("enter the amount you want to withdraw:");
    scanf("%d",&amo);
    if(amo<=totalamount)
        totalamount-=amo;
    else
        printf("\n less amount withdraw is not possible");
}

void transfer()
{
    printf("\n enter the amount you want to transfer:");
    scanf("%d",&tr);
    if(tr<=totalamount)
        totalamount-=tr;
    else
        printf("\n less amount transfer is not possible");
}

void checkdetail()
{
    printf("total amount:%d",totalamount);
}

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    printf("\n total deposited amount:%d",totaldeposit);
    printf("\n total withdraw amount:%d",totalwithdraw);
    printf("\n total transferred amount:%d",totaltr);
}
void last()
{
    printf("\n***\n");
    printf("\n your name=%s",name);
    printf("\n account number=%d",acc);
    printf("\ntotal amount:=%d",totalamount);
    printf("\n total deposited amount:%d",totaldeposit);
    printf("\n total withdraw amount:%d",totalwithdraw);
    printf("\n total transferred amount:%d",totaltr);
    printf("\n*THANKS*\n");
}
void create_an_account()
{
    char name[50];
    long long int mobile_num;
    printf("enter your name:");
    getchar();
    gets(name);
    puts(name);
    printf("enter your phone number:");
    scanf("%lld",&mobile_num);
    printf("%lld\n",mobile_num);
    getchar();

}
void acc_num()
{
    long long int acc;
    printf("ENTER THE ACCOUNT NUMBER:");
    scanf("%lld",&acc);
    printf("your account no. is:%lld\n",acc);
}
void select_bank(){
    printf( "press 1 for HDFC bank\n");
    printf( "press 2 for punjab national bank\n");
    printf( "press 3 for axis bank\n");
    int bank;
    scanf("%d",&bank);
    switch(bank){
        case 1:
            printf("Welcome to HDFC bank\n");
            break;
        case 2:
            printf("Welcome to punjab national bank\n");

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        break;
    case 3:
        printf("Welcome to axis bank\n");
        break;
    default:
        printf("\nno other bank is available");
    }
}
\end{lstlisting}
\\
\\
\\
\section{Output in C language-}
\newpage
\begin{figure}
\centering
\includegraphics[width=\linewidth]{Screenshot (44).png}
\bigskip
\includegraphics[width=\linewidth]{Screenshot (45).png}
\end{figure}
\bigskip
\bigskip
\bigskip\bigskip
\section{Profiling and Debugging}
\newpage
\begin{figure}
\centering
\includegraphics[width=\linewidth]{jain1.png}
\includegraphics[width=\linewidth]{jain2.png}
\includegraphics[width=\linewidth]{jain3.png}
\end{figure}
\begin{figure}
\centering
\includegraphics[width=\linewidth]{jain4.png}
\includegraphics[width=\linewidth]{WhatsApp Image 2022-11-22 at 02.54.37 (1).jpeg}
\includegraphics[width=\linewidth]{WhatsApp Image 2022-11-22 at 02.54.37.jpeg}
\\
\end{figure}
\bigskip
\bigskip
\newpage
\begin{figure}
\centering
\includegraphics[width=\linewidth]{jaindebug.png}
\label{debugging}
\end{figure}
\newpage
\bigskip

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\end{document}