**NATIONAL UNIVERSITY**

**PAYROLL MANAGEMENT SYSTEM**

**Header Files Used**

1. **#include<iostream.h>**

For basic input and output functioning of program.

1. **#include<conio.h>**

**Functions Used**

* 1. clrscr() clears text mode window
  2. clreol() clears to end of line in text window
  3. cprintf() sends formatted output to the text window on the screen
  4. getch() it puts a character in memory but does not display on output screen
  5. getche() it puts a character in memory and display on the output screen
  6. gotoxy() place cursor in the text window
  7. textcolor() selects a new character color in text mode

**Constants used**

a. BLINK to make the text blink in text mode

**3. #include<dos.h>**

**Functions Used**

1. delay() suspends execution for interval (milliseconds)

**4. #include<process.h>**

**Functions used**

1. exit() terminates the program

**5. #include<ctype.h>**

**Functions Used**

1. isspace() to check a space
2. isupper() to convert a character into upper case
3. islower() to convert a character into lower case
4. isdigit() to check a digit
5. isalpha() to check a alphabet
6. toascii() to convert a character into its ASCII value

**6. #include<fstream.h>**

**Functions Used**

1. seekp() to place cursor in a data file during output mode
2. seekg() to place cursor in a data file during input mode
3. tellg() to return the cursor position from a data file during input mode
4. eof() to check the ending of a data file

**Classes Used**

1. **class admin** class used for administration login purpose

**Public Functions**

* 1. void login() for login purpose (password and username)

1. **class employee** class contain information about the employees such as name , address , phone number , gender , marital status , designation , employee code

**Public Functions**

* + 1. void registration() new employee registration
    2. void reg\_sucess() stores data of employee if registration is successful
    3. void reg\_code() assign code for a new employee
    4. void modify() modify a existing employee record
    5. void show\_employee() show record of a particular employee on the basis of employee code
    6. void about() contain information about developers
    7. void pay\_slip() prints the pay slip of a employee

**Data Files Used**

1. **edBase.txt** data file stores employee code
2. **dBase.txt** data file stores employee data

**User Defined Functions**

* + - 1. void f\_page() defines the front page
      2. void design() design border for each page
      3. void error() display a error message
      4. void menu() generate main menu of program
      5. void loading() show a loading message
      6. int date(int,int,int) check date input by user is correct or incorrect

**Arrays Used**

* + - 1. name[30] contains employee name
      2. address[100] contains employee address
      3. phone[10] contains employee phone number
      4. pass2[] contains correct password required for login
      5. pass[] contains user password input

**ASCII VALUES USED (for special purpose)**

1. Backspace 8
2. Enter 13
3. Esc 27