

```

Program WageMath;
uses crt, dos; //dos biblioteca de data e hora.
{----Identificao de topicos----}
Label
    start, menuadmin, login,
    menufunc, menu, opcoes,
    apa, rel, relat, relato;
{----Constante da data e hora----}
Const
    diadasemana: Array [1..7] of String = ('Domigo', 'Segunda', 'Terca', 'Quarta', 'Quinta', 'Sexta', 'Sabado');
    mesdoano: Array [1..12] of String = ('Janeiro', 'Fevereiro', 'Marco', 'Abril', 'Maio', 'Junho',
    'Julho', 'Agosto', 'Setembro', 'Outubro', 'Novembro', 'Dezembro');
{----Arquivos de registro de dados----}
Type
    utilizador = Record
        username, password: String[15];
        nome, sexo: string;
        nasc: string[10];
        bi: String[13];
        id: Integer;
    end;
    arquivo1 = file of utilizador;
    funcionario = Record
        nome, sexo, email, cargo: string;
        nasc: string[10];
        bi: string[13];
        cel: Array[1..2] of string;
        salario, aumento, desconto, paumento,
        pdesconto, salariototal, antigo: real;
        id, Ahext, Dhext: Integer;
    end;
    arquivo2 = file of funcionario;
{----Variaveis auxiliares e principais----}
Var
    arq1: arquivo1;
    admin: utilizador;
    arq2: arquivo2;
    func: funcionario;
    salario, aumento,
    deconto, paumento,
    pdesconto, salariototal: real;
    i, option, n, up, Ahext, Dhext,
    ibusca, idF, idA, day, dia, mes,
    ano, hora, minuto, segundo,
    msegundo, weekday: Integer;
    nomefunc, nomeadmin,
    tel, mail: String;
    user, pass, passadmin: string[15];
    tecla: char;
    encontrei: Boolean;
{----Subprogramas----}
Function Existe_Util(var fich: arquivo1):Boolean;
Begin
    {$I-}
    Reset(fich);
    if IOResult = 0 then
        Begin
            Existe_Util := true;
        end
    else
        Existe_Util := false;
    {$I+}
end;
//-----
Procedure Registro_Util(var fich: arquivo1);
Begin
    Assign(arq1, 'Utilizador.dat');
    Rewrite(arq1);
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    gotoxy(35,2);Writeln('_REGISTRO DO ADMINISTRADOR_');
    textcolor(white);
    textbackground(blue);
    Randomize;

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admin.id := 1101+Random(1000);
gotoxy(20,5);Writeln('ID: ',admin.id);
gotoxy(20,6);Write('Nome completo: ');
textcolor(yellow);Readln(admin.nome);
For up := 1 To Length(admin.nome) Do
  admin.nome[up] := Uppcase(admin.nome[up]);
textcolor(white);gotoxy(20,7);write('Data de nascimento(dd/mm/aaaa): ');
textcolor(yellow);readln(admin.nasc);textcolor(white);
gotoxy(20,8);textcolor(white);write('Bilhete de identidade: ');
textcolor(yellow);readln(admin.bi);
for up := 1 to Length(admin.bi) do
  admin.bi[up] := upcase(admin.bi[up]);
gotoxy(20,9);textcolor(white);write('Sexo: ');
textcolor(yellow);readln(admin.sexo);
for up := 1 to Length(admin.sexo) do
  admin.sexo[up] := upcase(admin.sexo[up]);
gotoxy(20,10);textcolor(white);writeln('-----');
gotoxy(20,11);write('Username: ');
textcolor(yellow);readln(admin.username);
for up := 1 to Length(admin.username)do
  admin.username[up] := upcase(admin.username[up]);
textcolor(white);gotoxy(20,12);Write('Password: ');
textcolor(yellow);Readln(admin.password);
For up := 1 To Length(admin.password) Do
  admin.password[up] := Uppcase(admin.password[up]);
write(arq1, admin);
close(arq1);
end;
//-----
Procedure Adicionar_Util(var fich: arquivo1);
Begin
  Assign(arq1, 'Utilizador.dat');
  Reset(arq1);
  Seek(arq1, FileSize(arq1));
  ClrScr;
  textcolor(blue);
  textbackground(lightcyan);
  gotoxy(35,2);Writeln('_REGISTRO DO ADMINISTRADOR_');
  textcolor(white);
  textbackground(blue);
  Randomize;
  admin.id := 1101+Random(1000);
  gotoxy(20,5);Writeln('ID: ',admin.id);
  gotoxy(20,6);Write('Nome completo: ');
  textcolor(yellow);Readln(admin.nome);
  For up := 1 To Length(admin.nome) Do
    admin.nome[up] := Uppcase(admin.nome[up]);
  textcolor(white);gotoxy(20,7);write('Data de nascimento(dd/mm/aaaa): ');
  textcolor(yellow);readln(admin.nasc);textcolor(white);
  gotoxy(20,8);textcolor(white);write('Bilhete de identidade: ');
  textcolor(yellow);readln(admin.bi);
  for up := 1 to Length(admin.bi) do
    admin.bi[up] := upcase(admin.bi[up]);
  gotoxy(20,9);textcolor(white);write('Sexo: ');
  textcolor(yellow);readln(admin.sexo);
  for up := 1 to Length(admin.sexo) do
    admin.sexo[up] := upcase(admin.sexo[up]);
  gotoxy(20,10);textcolor(white);writeln('-----');
  gotoxy(20,11);write('Username: ');
  textcolor(yellow);readln(admin.username);
  for up := 1 to Length(admin.username)do
    admin.username[up] := upcase(admin.username[up]);
  textcolor(white);gotoxy(20,12);Write('Password: ');
  textcolor(yellow);Readln(admin.password);
  For up := 1 To Length(admin.password) Do
    admin.password[up] := Uppcase(admin.password[up]);
  write(arq1, admin);
  close(arq1);
end;
//-----
Function Verifica_Util(var fich: arquivo1; usr, pwd: string): Boolean;
Begin
  Assign(arq1, 'Utilizador.dat');
  Reset(arq1);
  for i := 0 to FileSize(arq1)-1 Do

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Begin
    seek(arq1, i);
    Read(arq1, admin);
    if(admin.username = usr) and (admin.password = pwd)then
        Begin
            Verifica_Util := true;
        end
    Else
        Verifica_Util := False;
    end;
    Close(arq1);
end;
//-----
Function Existe_Func(var fich:arquivo2):Boolean;
Begin
    {$I-}
    Reset(arq2);
    if IOResult = 0 Then
        Begin
            Existe_Func:= true;
        End
    Else
        Existe_Func:= false;
    {$I+}
End;
//-----
Procedure Registro_Func(var fich:arquivo2);
Begin
    Assign(arq2, 'Funcionario.dat');
    Rewrite(arq2);
    ClrScr;
    TEXTCOLOR(BLUE);
    TEXTBACKGROUND(LIGHTCYAN);
    gotoxy(35,2);writeln('_REGISTRO DO FUNCIONARIO_');
    TEXTCOLOR(WHITE);
    TEXTBACKGROUND(BLUE);
    gotoxy(15,6);writeln('Quantos funcionarios deseja registrar?');
    gotoxy(15,7);write('>>> ');
    readln(n);
    for i := 1 to n do
        Begin
            ClrScr;
            TEXTCOLOR(BLUE);
            TEXTBACKGROUND(LIGHTCYAN);
            gotoxy(35,2);writeln('_REGISTRO DO FUNCIONARIO_');
            TEXTCOLOR(WHITE);
            TEXTBACKGROUND(BLUE);
            Randomize;
            func.id:= 110101+Random(100);
            gotoxy(15,6);writeln('ID FUNCIONARIO: ',func.id);
            gotoxy(15,7);write('Nome completo: ');
            textcolor(yellow);Readln(func.nome);
            For up := 1 To Length(func.nome) Do
                func.nome[up] := Ucase(func.nome[up]);
            textcolor(white);gotoxy(15,8);write('Data de nascimento(dd/mm/aaaa: ');
            textcolor(yellow);readln(func.nasc);
            textcolor(white);gotoxy(15,9);write('Bilhete de identidade: ');
            textcolor(yellow);readln(func.bi);
            for up := 1 to Length(func.bi) do
                func.bi[up] := upcase(func.bi[up]);
            textcolor(white);gotoxy(15,10);write('Sexo: ');
            textcolor(yellow);readln(func.sexo);
            for up := 1 to Length(func.sexo) do
                func.sexo[up] := upcase(func.sexo[up]);
            textcolor(white);gotoxy(15,11);write('Celular: ');
            textcolor(yellow);readln(func.cel[1]);
            textcolor(white);gotoxy(15,12);write('Celular alternativo: ');
            textcolor(yellow);readln(func.cel[2]);
            gotoxy(15,13);textcolor(white);write('Email: ');
            textcolor(yellow);Readln(func.email);
            ClrScr;
            textcolor(white);
            gotoxy(15,5);writeln('[1] Gerente');
            gotoxy(15,6);writeln('[2] Engenheiro');
            gotoxy(15,7);writeln('[3] Tecnico');
        end
    end;
end;

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gotoxy(15,8);writeln('[4] Outros');
gotoxy(15,9);writeln('-----');
gotoxy(15,10);write('>>> ');
readln(option);
case(option)of
  1: Begin
    func.salario := 60000;
    func.cargo := 'Gerente';
  end;
  2: Begin
    func.salario := 50000;
    func.cargo := 'Engenheiro';
  end;
  3: Begin
    func.salario := 40000;
    func.cargo := 'Tecnico';
  end;
  4: Begin
    func.salario := 30000;
    func.cargo := 'Outros';
  end
else RunError;
end;
write(arq2, func);
end;
Close(arq2);
End;
//-----
Procedure Adicionar_Func(var fich: arquivo2);
Begin
  Assign(arq2, 'Funcionario.dat');
  Reset(arq2);
  Seek(arq2, FileSize(arq2));
  ClrScr;
  TEXTCOLOR(BLUE);
  TEXTBACKGROUND(LIGHTCYAN);
  gotoxy(35,2);writeln('_REGISTRO DO FUNCIONARIO_');
  TEXTCOLOR(WHITE);
  TEXTBACKGROUND(BLUE);
  gotoxy(15,6);writeln('Quantos funcionarios deseja registrar?');
  gotoxy(15,7);write('>>> ');
  readln(n);
  for i := 1 to n do
    Begin
      ClrScr;
      TEXTCOLOR(BLUE);
      TEXTBACKGROUND(LIGHTCYAN);
      gotoxy(35,2);writeln('_REGISTRO DO FUNCIONARIO_');
      TEXTCOLOR(WHITE);
      TEXTBACKGROUND(BLUE);
      Randomize;
      func.id:= 110101+Random(100);
      gotoxy(15,6);writeln('ID FUNCIONARIO: ',func.id);
      gotoxy(15,7);write('Nome completo: ');
      textcolor(yellow);Readln(func.nome);
      For up := 1 To Length(func.nome) Do
        func.nome[up] := Uppcase(func.nome[up]);
      textcolor(white);gotoxy(15,8);write('Data de nascimento(dd/mm/aaaa): ');
      textcolor(yellow);readln(func.nasc);
      textcolor(white);gotoxy(15,9);write('Bilhete de identidade: ');
      textcolor(yellow);readln(func.bi);
      for up := 1 to Length(func.bi) do
        func.bi[up] := upcase(func.bi[up]);
      textcolor(white);gotoxy(15,10);write('Sexo: ');
      textcolor(yellow);readln(func.sexo);
      for up := 1 to Length(func.sexo) do
        func.sexo[up] := upcase(func.sexo[up]);
      textcolor(white);gotoxy(15,11);write('Celular: ');
      textcolor(yellow);readln(func.cel[1]);
      textcolor(white);gotoxy(15,12);write('Celular alternativo: ');
      textcolor(yellow);readln(func.cel[2]);
      gotoxy(15,13);textcolor(white);write('Email: ');
      textcolor(yellow);Readln(func.email);
      ClrScr;
      textcolor(white);
    end;
  end;
end;

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    gotoxy(15,5);writeln('[1] Gerente');
    gotoxy(15,6);writeln('[2] Engenheiro');
    gotoxy(15,7);writeln('[3] Tecnico');
    gotoxy(15,8);writeln('[4] Outros');
    gotoxy(15,9);writeln('-----');
    gotoxy(15,10);write('>>> ');
    readln(option);
    case(option)of
      1: Begin
          func.salario := 60000;
          func.cargo := 'Gerente';
        end;
      2: Begin
          func.salario := 50000;
          func.cargo := 'Engenheiro';
        end;
      3: Begin
          func.salario := 40000;
          func.cargo := 'Tecnico';
        end;
      4: Begin
          func.salario := 30000;
          func.cargo := 'Outros';
        End
      Else RunError;
    end;
    salario := func.salario;
    write(arq2, func);
  end;
  Close(arq2);
End;
//-----
Procedure listar_Func(var fich: arquivo2);
Begin
  Assign(fich, 'Funcionario.dat');
  Reset(fich);
  While not Eof(fich)do
    Begin
      read(fich, func);
      writeln('ID: ',func.id);
      writeln('NOME: ',func.nome);
      writeln('DATA DE NASCIMENTO: ', func.nasc);
      writeln('BILHETE DE IDENTIDADE: ',func.bi);
      writeln('SEXO: ', func.sexo);
      writeln('CARGO: ',func.cargo);
      writeln('SALARIO: ',func.salario:2:2,'MZN');
      writeln('CELULAR: ', func.cel[1]);
      writeln('CELULAR ALTERNATIVO: ', func.cel[2]);
      writeln('Email: ', func.email);
      writeln('-----');
    end;
  Close(fich);
end;
//-----
Procedure PesquisaID_Func(var fich: arquivo2; idF: Integer);
Begin
  ClrScr;
  TEXTCOLOR(BLUE);
  TEXTBACKGROUND(LIGHTCYAN);
  gotoxy(30,2);writeln('_PESQUISA DE FUNCIONARIO POR ID_');
  TEXTCOLOR(white);
  TEXTBACKGROUND(blue);
  gotoxy(10,6);write('ID do funcionario: ');
  readln(idF);
  Assign(arq2, 'Funcionario.dat');
  Reset(arq2);
  for i := 0 to FileSize(arq2)-1 do
    Begin
      Seek(arq2, i);
      read(arq2, func);
      if(func.id = idF)then
        Begin
          with func do
            Begin
              ClrScr;

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        writeln('ID: ', id);
        writeln('NOME: ', nome);
        writeln('DATA DE NASCIMENTO: ', nasc);
        writeln('BILHETE DE IDENTIDADE: ', bi);
        writeln('SEXO: ', sexo);
        writeln('CARGO: ', cargo);
        writeln('SALARIO: ', salario:2:2,'MZN');
        writeln('CELULAR: ', cel[1]);
        writeln('CELULAR ALTERNATIVO: ', cel[2]);
        writeln('Email: ', email);
        writeln('-----');
        encontrei := true;
        writeln('Clique enter para voltar');
        readln;
        break;
    end;
end; encontrei := False;
end;
Close(arq2);
if(encontrei = false)then
Begin
    ClrScr;
    gotoxy(15,6);textcolor(lightred);writeln('ID nao registrado. ');
    gotoxy(15,7);textcolor(white);writeln('Pressione enter para voltar');
    readln;
end;
end;
//-----
Procedure PesquisaNome_Func(var fich: arquivo2; nomefunc: string);
Begin
    ClrScr;
    TEXTCOLOR(BLUE);
    TEXTBACKGROUND(LIGHTCYAN);
    gotoxy(30,2);writeln('_PESQUISA DE FUNCIONARIO PELO NOME_');
    TEXTCOLOR(WHITE);
    TEXTBACKGROUND(BLUE);
    gotoxy(10,5);write('Nome do funcionario: ');
    readln(nomefunc);
    for up := 1 to Length(nomefunc)do
        nomefunc[up] := upcase(nomefunc[up]);
    Assign(arq2, 'Funcionario.dat');
    Reset(arq2);
    for i := 0 to FileSize(arq2)-1 do
        Begin
            Seek(arq2, i);
            read(arq2, func);
            if (func.nome = nomefunc) then
                Begin
                    with func do
                        Begin
                            ClrScr;
                            writeln('ID: ', id);
                            writeln('NOME: ', nome);
                            writeln('DATA DE NASCIMENTO: ', nasc);
                            writeln('BILHETE DE IDENTIDADE: ', bi);
                            writeln('SEXO: ', sexo);
                            writeln('CARGO: ', cargo);
                            writeln('SALARIO: ', salario:2:2,'MZN');
                            writeln('CELULAR: ', cel[1]);
                            writeln('CELULAR ALTERNATIVO: ', cel[2]);
                            writeln('Email: ', email);
                            writeln('-----');
                            encontrei := true;
                            writeln('Clique enter para voltar');
                            readln;
                            break;
                        End;
                    end; encontrei := False;
                end;
            end;
        Close(arq2);
        if encontrei = False Then
            Begin
                ClrScr;
                gotoxy(15,6);textcolor(lightred);writeln('Funcionario nao registrado. ');
                gotoxy(15,7);textcolor(white);writeln('Pressione enter para voltar');
            end;
        end;
    end;

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        readln;
    end;
End;
//-----
Procedure AlterarPerfil_Func(var fich: arquivo2; idF: Integer; nomefunc:String);
Begin
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    gotoxy(28,3);writeln('_EDITAR PERFIL DO FUNCIONARIO_');
    textcolor(white);
    textbackground(blue);
    gotoxy(10,8);write('ID do funcionario: ');
    textcolor(yellow);readln(idF);textcolor(white);
    gotoxy(10,9);write('Nome do funcionario: ');
    textcolor(yellow);readln(nomefunc);Textcolor(white);
    for up := 1 to Length(nomefunc)do
        nomefunc[up] := upcase(nomefunc[up]);
    Assign(arq2, 'Funcionario.dat');
    Reset(arq2);
    for i := 0 to FileSize(arq2)-1 do
        Begin
            if(func.id = idF) and (func.nome = nomefunc)then
                Begin
                    ClrScr;
                    textcolor(blue);
                    textbackground(lightcyan);
                    gotoxy(30,3);writeln('_EDITAR PERFIL DO FUNCIONARIO_');
                    textcolor(white);
                    textbackground(blue);
                    gotoxy(9,5);writeln('Introduza os dados a serem alterados. ');
                    gotoxy(10,8);writeln('ID FUNCIONARIO: ',func.id);
                    gotoxy(10,9);write('Nome completo: ');
                    textcolor(yellow);Readln(func.nome);
                    For up := 1 To Length(func.nome) Do
                        func.nome[up] := Upcase(func.nome[up]);
                    textcolor(white);gotoxy(10,10);write('Data de nascimento(dd/mm/aaaa): ');
                    textcolor(yellow);readln(func.nasc);
                    gotoxy(10,11);textcolor(white);write('Bilhete de identidade: ');
                    textcolor(yellow);readln(func.bi);
                    for up := 1 to Length(func.bi) do
                        func.bi[up] := upcase(func.bi[up]);
                    textcolor(white);gotoxy(10,12);write('Sexo: ');
                    textcolor(yellow);readln(func.sexo);
                    for up := 1 to Length(func.sexo) do
                        func.sexo[up] := upcase(func.sexo[up]);
                    gotoxy(10,13);textcolor(white);write('Celular: ');
                    textcolor(yellow);readln(func.cel[1]);
                    textcolor(white);gotoxy(10,14);write('Celular alternativo: ');
                    textcolor(yellow);readln(func.cel[2]);
                    textcolor(white);gotoxy(10,15);write('Email: ');
                    textcolor(yellow);Readln(func.email);
                    ClrScr;
                    textcolor(white);
                    gotoxy(20,6);writeln('[1] Gerente');
                    gotoxy(20,7);writeln('[2] Engenheiro');
                    gotoxy(20,8);writeln('[3] Tecnico');
                    gotoxy(20,9);writeln('[4] Outros');
                    gotoxy(20,10);writeln('-----');
                    gotoxy(20,11);write('>>> ');
                    readln(option);
                    case(option)of
                        1: Begin
                            func.salario := 60000;
                            func.cargo := 'Gerente';
                        end;
                        2: Begin
                            func.salario := 50000;
                            func.cargo := 'Engenheiro';
                        end;
                        3: Begin
                            func.salario := 40000;
                            func.cargo := 'Tecnico';
                        end;
                        4: Begin

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        func.salario := 30000;
        func.cargo := 'Outros';
    End;
End;
Assign(arq2, 'Funcionario.dat');
Reset(arq2);
write(arq2, func);
Close(arq2);
ClrScr;
gotoxy(5,15);textcolor(lightgreen);writeln('Os seu perfil foi atualizado com sucesso.');
```

textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');

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end
Else
Begin
    ClrScr;;
    textcolor(lightred);gotoxy(5,15);writeln('Os dados introduzidos nao foram encontrados em nossos registros.');
```

textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');

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    end;
end;
end;
//-----
Procedure Eliminar_Func(var fich: arquivo2; idF: Integer; nomefunc:String);
Begin
    ClrScr;
    Textcolor(blue);
    Textbackground(lightcyan);
    GotoXY(33,3);writeln('_REMOVER PERFIL DO FUNCIONARIO_');
```

Textcolor(white);

Textbackground(blue);

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    gotoxy(10,8);write('ID do funcinonario: ');
    textcolor(yellow);readln(idF);textcolor(white);
    gotoxy(10,9);write('Nome do funcionario: ');
    textcolor(yellow);readln(nomefunc);textcolor(white);
    for up := 1 to Length(nomefunc)Do
        nomefunc[up] := upcase(nomefunc[up]);
    Assign(arq2, 'Funcionario.dat');
```

Reset(arq2);

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    for i := 0 to FileSize(arq2)-1 Do
        Begin
            Seek(arq2, i);
            Read(arq2, func);
            if(func.id = idF) and (func.nome = nomefunc)then
                begin
                    Close(arq2);
                    gotoxy(10,10);textcolor(white);writeln('Tem certeza de que deseja eliminar fucionario[S/N]?');
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tecla := readkey;

tecla := upcase(tecla);

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                    if(tecla = 'S')then
                        Begin
                            Reset(arq2);
                            Seek(arq2, i+1);
                            while not Eof(arq2)Do
                                Begin
                                    read(arq2, func);
                                    seek(arq2, FilePos(arq2)-2);
                                    write(arq2, func);
                                    Seek(arq2, FilePos(arq2)+1);
                                end;
                            Seek(arq2, FilePos(arq2)-1);
                            Truncate(arq2);
                            Close(arq2);
                            encontrei := true;
                            ClrScr;
                            gotoxy(5,15);textcolor(lightgreen);writeln('Usuario removido.');
```

gotoxy(5,16);textcolor(white);writeln('Click enter para voltar.');

```

                            Readln;
                        end
                    else
                        Begin
                            if(tecla = 'N')then
                                Begin
                                    ClrScr;
                                    encontrei := True;
                                    gotoxy(10,5);writeln('Operacao cancelada.');
```

gotoxy(10,6);writeln('Click enter para voltar.');


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        Readln;
    end
    else RunError;
end;
end
Else
Begin
    ClrScr;
    gotoxy(8,5);textcolor(lightred);writeln('Funcionario nao registrado. ');
    textcolor(white);gotoxy(8,6);writeln('Click enter para voltar. ');
    readln;
end;
end;
end;
//-----
Procedure Wage_Func(var fich: arquivo2);
Label
behind, back, previous;
var
aumento, desconto, paumento, pdesconto,
salario, salariototal, antigo: Real;
nomefunc: String;
Ahext, Dhext: Integer;

Begin
    ClrScr;
    TEXTCOLOR(BLUE);
    TEXTBACKGROUND(LIGHTCYAN);
    gotoxy(35,2);writeln('_FOLHA DE AJUSTE SALARIAL_ ');
    TEXTCOLOR(WHITE);
    TEXTBACKGROUND(BLUE);
    GOTOXY(10,6);write('Nome do funcionario: ');
    textcolor(yellow);readln(nomefunc);textcolor(white);
    for up := 1 to Length(nomefunc)do
        nomefunc[up] := Ucase(nomefunc[up]);
    Assign(arq2, 'Funcionario.dat');
    reset(arq2);
    for i := 0 to FileSize(arq2)-1 do
        Begin
            Seek(arq2, i);
            Read(arq2, func);
            if(func.nome = nomefunc)then
                Begin
                    behind:
                        ClrScr;
                        writeln('ID: ', func.id);
                        writeln('NOME: ', func.nome);
                        writeln('DATA DE NASCIMENTO: ', func.nasc);
                        writeln('BILHETE DE IDENTIDADE: ', func.bi);
                        writeln('SEXO: ', func.sexo);
                        writeln('CARGO: ', func.cargo);
                        writeln('SALARIO: ', func.salario:2:2,'MZN');
                        writeln('CELULAR: ', func.cel[1]);
                        writeln('CELULAR ALTERNATIVO: ', func.cel[2]);
                        writeln('Email: ', func.email);
                        writeln('-----');
                        writeln('[1] Aumento salarial. ');
                        writeln('[2] Desconto salarial. ');
                        writeln('[3] Voltar');
                        write('>>> ');
                        readln(option);
                        case(option)of
                            1: Begin
                                back:
                                    ClrScr;
                                    Assign(arq2, 'Funcionario.dat');
                                    reset(arq2);
                                    Rewrite(arq2);
                                    gotoxy(25,8);writeln('[1] Por horas extras de trabalho. ');
                                    gotoxy(25,9);writeln('[2] Por percentagem. ');
                                    gotoxy(25,10);writeln('[3] Voltar');
                                    gotoxy(25,12);write('>>> ');
                                    readln(option);
                                    case(option)of
                                        1: Begin

```

```

ClrScr;
gotoxy(25,8);writeln('[1] 1 Hora. ');
gotoxy(25,9);writeln('[2] 2 Horas. ');
gotoxy(25,10);writeln('[3] 3 Horas. ');
gotoxy(25,11);writeln('[4] Outras Horas. ');
gotoxy(25,12);writeln('[5] Voltar ');
gotoxy(25,13);write('>>> ');
readln(option);
case(option)Of
  1: Begin
    ClrScr;
    func.Ahext := 1;
    func.salariototal := (func.salario * (1 + 6.5/100)) + 250 * func.Ahext;
    func.aumento := func.salariototal - func.salario;
    func.salario := func.salariototal;
    func.antigo := func.salario - func.aumento;
    gotoxy(10,5);writeln('-----');
    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
    gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
    gotoxy(10,9);writeln('-----');
    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
    readln;
  end;
  2: Begin
    ClrScr;
    func.Ahext := 2;
    func.salariototal := (func.salario * (1 + 13/100)) + 250 * func.Ahext;
    func.aumento := func.salariototal - func.salario;
    func.salario := func.salariototal;
    func.antigo := func.salario - func.aumento;
    gotoxy(10,5);writeln('-----');
    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
    gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
    gotoxy(10,9);writeln('-----');
    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
    readln;
  end;
  3: Begin
    ClrScr;
    func.Ahext := 3;
    func.salariototal := (func.salario * (1 + 19.5/100)) + 250 * func.Ahext;
    func.aumento := func.salariototal - func.salario;
    func.salario := func.salariototal;
    func.antigo := func.salario - func.aumento;
    gotoxy(10,5);writeln('-----');
    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
    gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
    gotoxy(10,9);writeln('-----');
    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
    readln;
  end;
  4: Begin
    ClrScr;
    gotoxy(10,8);writeln('Quantas horas extras de trabalho? ');
    gotoxy(10,9);write('>>> ');
    readln(func.Ahext);
    func.salariototal := (func.salario * (1 + 19.5/100)) + 250 * func.Ahext;
    func.aumento := func.salariototal - func.salario;
    func.salario := func.salariototal;
    func.antigo := func.salario - func.aumento;
    ClrScr;
    gotoxy(10,5);writeln('-----');
    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
    gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
    gotoxy(10,9);writeln('-----');
    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
    readln;
  end;
5: goto back;
end;
end;

```

```

2: Begin
  ClrScr;
  gotoxy(25,8);writeln('[1] 10 %.');
  gotoxy(25,9);writeln('[2] 20 %.');
  gotoxy(25,10);writeln('[3] 30 %.');
  gotoxy(25,11);writeln('[4] Outras %.');
  gotoxy(25,12);writeln('[5] Voltar');
  gotoxy(25,13);write('>>> ');
  readln(option);
  case(option)Of
    1: Begin
      ClrScr;
      func.salariototal := func.salario * 1.1;
      func.paumento := 10;
      func.aumento := func.salariototal - func.salario;
      func.salario := func.salariototal;
      func.antigo := func.salario - func.aumento;
      gotoxy(10,5);writeln('-----');
      gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
      gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
      gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
      gotoxy(10,9);writeln('-----');
      gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
      readln;
    end;
    2: Begin
      ClrScr;
      func.salariototal := func.salario * 1.2;
      func.paumento := 20;
      func.aumento := func.salariototal - func.salario;
      func.salario := func.salariototal;
      func.antigo := func.salario - func.aumento;
      gotoxy(10,5);writeln('-----');
      gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
      gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
      gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
      gotoxy(10,9);writeln('-----');
      gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
      readln;
    end;
    3: Begin
      ClrScr;
      func.salariototal := func.salario * 1.3;
      func.paumento := 30;
      func.aumento := func.salariototal - func.salario;
      func.salario := func.salariototal;
      func.antigo := func.salario - func.aumento;
      gotoxy(10,5);writeln('-----');
      gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
      gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
      gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
      gotoxy(10,9);writeln('-----');
      gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
      readln;
    end;
    4: Begin
      ClrScr;
      gotoxy(10,8);writeln('Quanto sera o aumento percentual?');
      gotoxy(10,9);write('>>> ');
      readln(func.paumento);
      func.salariototal := func.salario * (1 +(func.paumento)/100);
      func.aumento := func.salariototal - func.salario;
      func.salario := func.salariototal;
      func.antigo := func.salario - func.aumento;
      ClrScr;
      gotoxy(10,5);writeln('-----');
      gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
      gotoxy(10,7);writeln('Aumento Salarial: ',func.aumento:2:2, ' MZN');
      gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
      gotoxy(10,9);writeln('-----');
      gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
      readln;
    end;
  5: goto back;
end;

```

```

        end;
        3: goto behind
        Else goto back;
    end;
end;
2: Begin
    previous:
    ClrScr;
    Assign(arq2, 'Funcionario.dat');
    reset(arq2);
    Rewrite(arq2);
    gotoxy(25,8);writeln('[1] Por horas extras de trabalho. ');
    gotoxy(25,9);writeln('[2] Por percentagem. ');
    gotoxy(25,10);writeln('[3] Voltar ');
    gotoxy(25,11);write('>>> ');
    readln(option);
    case(option)of
        1: Begin
            ClrScr;
            gotoxy(25,8);writeln('[1] 1 Hora ');
            gotoxy(25,9);writeln('[2] 2 Horas ');
            gotoxy(25,10);writeln('[3] 3 Horas ');
            gotoxy(25,11);writeln('[4] Outras Horas ');
            gotoxy(25,12);writeln('[5] Voltar ');
            gotoxy(25,13);write('>>> ');
            readln(option);
            case(option)Of
                1: Begin
                    ClrScr;
                    func.Dhext := 1;
                    func.salariototal := (func.salario * (1 + 6.5/100)) - 250 * func.Dhext;
                    func.desconto := func.salariototal - func.salario;
                    func.salario := func.salariototal;
                    func.antigo := func.salario + func.desconto;
                    gotoxy(10,5);writeln('-----');
                    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
                    gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2, ' MZN');
                    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
                    gotoxy(10,9);writeln('-----');
                    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
                    readln;
                end;
                2: Begin
                    ClrScr;
                    func.Dhext := 2;
                    func.salariototal := (func.salario * (1 + 13/100)) - 250 * func.Dhext;
                    func.desconto := func.salariototal - func.salario;
                    func.salario := func.salariototal;
                    func.antigo := func.salariototal + func.desconto;
                    gotoxy(10,5);writeln('-----');
                    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
                    gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2, ' MZN');
                    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
                    gotoxy(10,9);writeln('-----');
                    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
                    readln;
                end;
                3: Begin
                    ClrScr;
                    func.Dhext := 3;
                    func.salariototal := (func.salario * (1 + 19.5/100)) - 250 * func.Dhext;
                    func.desconto := func.salariototal - func.salario;
                    func.salario := func.salariototal;
                    func.antigo := func.salariototal + func.desconto;
                    gotoxy(10,5);writeln('-----');
                    gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
                    gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2, ' MZN');
                    gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
                    gotoxy(10,9);writeln('-----');
                    gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
                    readln;
                end;
                4: Begin
                    ClrScr;
                    gotoxy(10,5);writeln('Quantas horas extras de trabalho? ');

```

```

        gotoxy(10,6);write('>>> ');
        readln(func.Dhext);
        func.salariototal := (func.salario * (1 + 6.5/100)) - 250 * func.Dhext;
        func.desconto := func.salariototal - func.salario;
        func.salario := func.salariototal;
        func.antigo := func.salario + func.desconto;
        ClrScr;
        gotoxy(10,5);writeln('-----');
        gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
        gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2,' MZN');
        gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
        gotoxy(10,9);writeln('-----');
        gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
        readln;
    end;
5: goto previous;
end;
end;
2: Begin
    ClrScr;
    gotoxy(25,8);writeln('[1] 10 %. ');
    gotoxy(25,9);writeln('[2] 20 %. ');
    gotoxy(25,10);writeln('[3] 30 %. ');
    gotoxy(25,11);writeln('[4] Outras %. ');
    gotoxy(25,12);writeln('[5] Voltar ');
    gotoxy(25,13);write('>>> ');
    readln(option);
    case(option)Of
        1: Begin
            ClrScr;
            func.salariototal := func.salario * 0.9;
            func.pdesconto := 10;
            func.desconto := func.salariototal - func.salario;
            func.salario := func.salariototal;
            func.antigo := func.salariototal - func.desconto;
            gotoxy(10,5);writeln('-----');
            gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
            gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2,' MZN');
            gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
            gotoxy(10,9);writeln('-----');
            gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
            readln;
        end;
        2: Begin
            ClrScr;
            func.salariototal := func.salario * 0.8;
            func.pdesconto := 20;
            func.desconto := func.salariototal - func.salario;
            func.salario := func.salariototal;
            func.antigo := func.salariototal - func.desconto;
            gotoxy(10,5);writeln('-----');
            gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
            gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2,' MZN');
            gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
            gotoxy(10,9);writeln('-----');
            gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
            readln;
        end;
        3: Begin
            ClrScr;
            func.salariototal := func.salario * 0.7;
            func.pdesconto := 30;
            func.desconto := func.salariototal - func.salario;
            func.salario := func.salariototal;
            func.antigo := func.salariototal - func.desconto;
            gotoxy(10,5);writeln('-----');
            gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
            gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2,' MZN');
            gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
            gotoxy(10,9);writeln('-----');
            gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
            readln;
        end;
        4: Begin
            ClrScr;

```

```

        gotoxy(10,5);writeln('Quanto sera o desconto percentual?');
        gotoxy(10,6);write('>>> ');
        readln(func.pdesconto);
        func.salariototal := func.salario * (1 -(func.pdesconto)/100);
        func.desconto := func.salariototal - func.salario;
        func.salario := func.salariototal;
        func.antigo := func.salario - func.desconto;
        ClrScr;
        gotoxy(10,5);writeln('-----');
        gotoxy(10,6);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
        gotoxy(10,7);writeln('Desconto Salarial: ',func.desconto:2:2,' MZN');
        gotoxy(10,8);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
        gotoxy(10,9);writeln('-----');
        gotoxy(10,10);writeln('Clique enter para voltar ao menu. ');
        readln;
    End;
    5: goto previous;
    end;
    end;
    3: goto behind
    else goto previous;
end;
antigo := func.antigo;
aumento := func.aumento;
desconto := func.desconto;
paumento := func.paumento;
pdesconto := func.pdesconto;
Ahext := func.Ahext;
Dhext := func.Dhext;
salario:= func.salario;
salariototal := func.salariototal;
end;
3: read
Else goto behind;
end;
Seek(arq2, i);
write(arq2, func);
end
Else
Begin
    ClrScr;
    textcolor(lightred);gotoxy(5,10);writeln('Funcionario nao registrado. ');
    gotoxy(5,11);textcolor(white);writeln('Clique enter para voltar. ');
    readln;
end;
end;
Close(arq2);
end;
//-----
Procedure Relatorio(var fich:arquivo2);
Label
    back, previous, behind;
Begin
    ClrScr;
    Assign(arq2, 'Funcionario.dat');
    Reset(arq2);
    while not Eof(arq2)do
        Begin
            read(arq2, func);
            back:
            ClrScr;
            textcolor(blue);
            textbackground(lightcyan);
            GOTOXY(30,3);writeln('_RELATORIO DO AJUSTE SALARIAL_');
            TEXTCOLOR(WHITE);
            TEXTBACKGROUND(BLUE);
            GOTOXY(20,9);writeln('[1] Aumento salarial');
            GOTOXY(20,10);writeln('[2] Desconto salarial');
            gotoxy(20,11);writeln('[3] Voltar');
            GOTOXY(20,12);writeln('-----');
            GOTOXY(20,13);write('>>> ');
            readln(option);
            case(option)of
                1: Begin
                    behind:

```

```

ClrScr;
textcolor(blue);
textbackground(lightcyan);
GOTOXY(30,3);writeln('_RELATORIO DO AJUSTE SALARIAL_');
TEXTCOLOR(WHITE);
TEXTBACKGROUND(BLUE);
GOTOXY(20,9);writeln('[1] Por hora extra de trabalho');
GOTOXY(20,10);writeln('[2] Por percentagem');
gotoxy(20,11);writeln('[3] Voltar');
GOTOXY(20,12);writeln('-----');
GOTOXY(20,13);write('>>> ');
readln(option);
Case(option)Of
  1: Begin
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    GOTOXY(30,3);writeln('_RELATORIO DO AUMENTO POR HORA EXTRA_');
    TEXTCOLOR(WHITE);
    TEXTBACKGROUND(BLUE);
    if(func.Ahext = 0)then
      Begin
        textcolor(lightred);gotoxy(15,10);writeln('Sem relatorio a ser apresentado. ');
        gotoxy(10,11);textcolor(white);writeln('Clique enter para voltar ao menu. ');
        readln;
      end
    Else
      Begin
        gotoxy(2,8);writeln('ID: ',func.id);
        gotoxy(2,9);writeln('NOME: ',func.nome);
        gotoxy(2,10);writeln('DATA DE NASCIMENTO: ', func.nasc);
        gotoxy(2,11);writeln('BILHETE DE IDENTIDADE: ',func.bi);
        gotoxy(2,12);writeln('SEXO: ', func.sexo);
        gotoxy(2,13);writeln('CARGO: ',func.cargo);
        gotoxy(2,14);writeln('CELULAR: ', func.cel[1]);
        gotoxy(2,15);writeln('CELULAR ALTERNATIVO: ', func.cel[2]);
        gotoxy(2,16);writeln('Email: ', func.email);
        gotoxy(2,17);writeln('-----');
        gotoxy(2,18);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
        GOTOXY(2,19);writeln('Hora(as) extras de trabalho: ',func.Ahext:2, ' hora(as)');
        gotoxy(2,20);writeln('Aumento Salarial: ',func.aumento:2:2,' MZN');
        gotoxy(2,21);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
        gotoxy(2,22);writeln('-----');
        gotoxy(2,23);writeln('Clique enter para fechar o relatorio. ');
        readln;
      end;
    end;
  2: Begin
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    GOTOXY(30,3);writeln('_RELATORIO DO AUMENTO POR PERCENTAGEM_');
    TEXTCOLOR(WHITE);
    TEXTBACKGROUND(BLUE);
    if(func.paumento = 0)Then
      Begin
        textcolor(lightred);gotoxy(15,10);writeln('Sem relatorio a ser apresentado. ');
        gotoxy(10,11);textcolor(white);writeln('Clique enter para voltar ao menu. ');
        readln;
      End
    Else
      Begin
        gotoxy(2,8);writeln('ID: ',func.id);
        gotoxy(2,9);writeln('NOME: ',func.nome);
        gotoxy(2,10);writeln('DATA DE NASCIMENTO: ', func.nasc);
        gotoxy(2,11);writeln('BILHETE DE IDENTIDADE: ',func.bi);
        gotoxy(2,12);writeln('SEXO: ', func.sexo);
        gotoxy(2,13);writeln('CARGO: ',func.cargo);
        gotoxy(2,14);writeln('CELULAR: ', func.cel[1]);
        gotoxy(2,15);writeln('CELULAR ALTERNATIVO: ', func.cel[2]);
        gotoxy(2,16);writeln('Email: ', func.email);
        gotoxy(2,17);writeln('-----');
        gotoxy(2,18);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
        GOTOXY(2,19);writeln('Percentual aumento: ',func.paumento:2:2, ' %');
        gotoxy(2,20);writeln('Aumento Salarial: ',func.aumento:2:2,' MZN');

```



```

        gotoxy(2,21);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
        gotoxy(2,22);writeln('-----');
        gotoxy(2,23);writeln('Clique enter para fechar o relatorio');
        readln;
    end;
end;
3: goto back;
else goto behind;
end;
end;
2: Begin
previous:
ClrScr;
textcolor(blue);
textbackground(lightcyan);
GOTOXY(30,3);writeln('_RELATORIO DO AJUSTE SALARIAL_');
TEXTCOLOR(WHITE);
TEXTBACKGROUND(BLUE);
GOTOXY(20,9);writeln('[1] Por hora extra de trabalho. ');
GOTOXY(20,10);writeln('[2] Por percentagem. ');
gotoxy(20,11);writeln('[3] Voltar');
GOTOXY(20,12);writeln('-----');
GOTOXY(20,13);write('>>> ');
readln(option);
Case(option)Of
    1: Begin
        ClrScr;
        textcolor(blue);
        textbackground(lightcyan);
        GOTOXY(30,3);writeln('_RELATORIO DO DESCONTO POR HORAS A MENOS_');
        TEXTCOLOR(WHITE);
        TEXTBACKGROUND(BLUE);
        if(func.Dhext = 0)then
            Begin
                textcolor(lightred);gotoxy(15,10);writeln('Sem relatorio a ser apresentado. ');
                gotoxy(10,11);textcolor(white);writeln('Clique enter para voltar ao menu. ');
                readln;
            end
        Else
            Begin
                gotoxy(2,8);writeln('ID: ',func.id);
                gotoxy(2,9);writeln('NOME: ',func.nome);
                gotoxy(2,10);writeln('DATA DE NASCIMENTO: ', func.nasc);
                gotoxy(2,11);writeln('BILHETE DE IDENTIDADE: ',func.bi);
                gotoxy(2,12);writeln('SEXO: ', func.sexo);
                gotoxy(2,13);writeln('CARGO: ',func.cargo);
                gotoxy(2,14);writeln('CELULAR: ', func.cel[1]);
                gotoxy(2,15);writeln('CELULAR ALTERNATIVO: ', func.cel[2]);
                gotoxy(2,16);writeln('Email: ', func.email);
                gotoxy(2,17);writeln('-----');
                gotoxy(2,18);writeln('Antigo Salario: ',func.antigo:2:2, ' MZN');
                GOTOXY(2,19);writeln('Hora(as) a menos de trabalho: ',func.Dhext:2, ' hora(as)');
                gotoxy(2,20);writeln('Desconto Salarial: ',func.desconto:2:2, ' MZN');
                gotoxy(2,21);writeln('Novo Salario: ',func.salariototal:2:2, ' MZN');
                gotoxy(2,22);writeln('-----');
                gotoxy(2,23);writeln('Clique enter para fechar o relatorio. ');
                readln;
            end;
        end;
    END;
2: Begin
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    GOTOXY(30,3);writeln('_RELATORIO DO DESCONTO POR PERCENTAGEM_');
    TEXTCOLOR(WHITE);
    TEXTBACKGROUND(BLUE);
    if(func.pdesconto = 0)Then
        Begin
            textcolor(lightred);gotoxy(15,10);writeln('Sem relatorio a ser apresentado. ');
            gotoxy(10,11);textcolor(white);writeln('Clique enter para voltar ao menu. ');
            readln;
        end
    Else
        Begin
            gotoxy(2,8);writeln('ID: ',func.id);

```



```

        gotoxy(2,9);writeln('NOME: ',func.nome);
        gotoxy(2,10);writeln('DATA DE NASCIMENTO: ', func.nasc);
        gotoxy(2,11);writeln('BILHETE DE IDENTIDADE: ',func.bi);
        gotoxy(2,12);writeln('SEXO: ', func.sexo);
        gotoxy(2,13);writeln('CARGO: ',func.cargo);
        gotoxy(2,14);writeln('CELULAR: ', func.cel[1]);
        gotoxy(2,15);writeln('CELULAR ALTERNATIVO: ', func.cel[2]);
        gotoxy(2,16);writeln('Email: ', func.email);
        gotoxy(2,17);writeln('-----');
        gotoxy(2,18);writeln('Antigo Salario: ',func.antigo:2:2,' MZN');
        GOTOXY(2,19);writeln('Percentual desconto: ',func.pdesconto:2:2, ' %');
        gotoxy(2,20);writeln('Desconto Salarial: ',func.desconto:2:2,' MZN');
        gotoxy(2,21);writeln('Novo Salario: ',func.salariototal:2:2,' MZN');
        gotoxy(2,22);writeln('-----');
        gotoxy(2,23);writeln('Clique enter para fechar o relatorio');
        readln;
    end;
END;
3: goto back;
else goto previous;
end;
end;
3: read;
else RunError;
end;
end;
Close(arq2);
end;
//-----
Procedure Date_Time;
Begin
    getdate(dia, mes, ano, weekday);
    gettime(hora, minuto, segundo, msegundo);
    writeln('Data e Hora: ');
    writeln(ano,'/', mesdoano[mes], '/',dia);
    writeln(hora,':',minuto,':',segundo);
end;
//-----
Function Verifica_Func(var fich: arquivo2; idF: Integer; nom:String): Boolean;
Begin
    Assign(arq2, 'Funcionario.dat');
    Verifica_Func:= false;
    reset(arq2);
    while not Eof(arq2)do
        Begin
            read(arq2, func);
            with func do
                Begin
                    if(func.id = idF) and (func.nome = nom)Then
                        Begin
                            Verifica_Func:= true;
                        end;
                    end;
                end;
            end;
        end;
    close(arq2);
end;
{---Capa---}
procedure Design;
var i,j:integer;
begin
    J:=0;
    //textcolor(lightred);
    Textbackground(blue);
    ClrScr;
    textcolor(yellow);gotoxy(25,30);writeln('DeveLoper: Carlos Macaneta');
    textcolor(white);
{----Letra W----}
    For i:=4 To 16 Do
        Begin;
            Gotoxy(4,i);
            Write(#219);
        End;
    For i:=4 To 6 Do
        Begin;
            Gotoxy(i,16);

```

```

    Write(#219);
End;
For i:=8 To 16 Do
Begin;
    Gotoxy(6,i);
    Write(#219);
End;
For i:= 6 To 8 Do
Begin;
    Gotoxy(i,7);
    Write(#219);
End;
For i:=8 To 16 Do
Begin;
    Gotoxy(8,i);
    Write(#219);
End;
For i:=9 To 10 Do
Begin;
    Gotoxy(i,16);
    Write(#219);
End;
For i:=4 To 16 Do
Begin;
    Gotoxy(10,i);
    Write(#219);
End;
{----Letra G----}
For i:=12 To 17 Do
Begin;
    Gotoxy(14,i);
    Write(#219);
End;
For i:= 14 To 22 Do
Begin;
    Gotoxy(i,12);
    Write(#219);
End;
For i:=14 To 22 Do
Begin;
    Gotoxy(i,18);
    Write(#219);
End;
For i:=12 To 26 Do
Begin;
    Gotoxy(22,i);
    Write(#219);
End;
For i:=14 To 22 Do
Begin;
    Gotoxy(i,27);
    Write(#219);
End;
For i:= 26 To 27 Do
Begin;
    Gotoxy(14,i);
    Write(#219);
End;
{----Letra M----}
For i:=4 To 16 Do
Begin;
    Gotoxy(25,i);
    Write(#219);
End;
For i:= 26 To 26 Do
Begin;
    Gotoxy(i,4);
    Write(#219);
End;
For i:= 4 To 13 Do
Begin;
    Gotoxy(27,i);
    Write(#219);
End;
For i:= 28 To 28 Do

```

```

Begin;
  Gotoxy(i,13);
  Write(#219);
End;
For i:= 4 To 13 Do
  Begin;
    Gotoxy(29,i);
    Write(#219);
  End;
For i:= 30 To 30 Do
  Begin;
    Gotoxy(i,4);
    Write(#219);
  End;
For i:=4 To 16 Do
  Begin;
    Gotoxy(31,i);
    Write(#219);
  End;
end;
//-----
Procedure Progress;
Var
  i: Integer;
Begin
  Gotoxy(37,12);
  textcolor(yellow);
  Writeln('WageMath');
  For i:=17 To 25 Do
    Begin
      Gotoxy(37,13);
      textcolor(lightgray);
      writeln('Corporation');
      Gotoxy(i+20,15);
      textcolor(lightgreen);
      Write('.');
      delay(130);
    End;
  textcolor(white);
  Design;
  For i:=25 Downto 17 Do
    Begin
      Gotoxy(37,12);
      textcolor(yellow);
      Writeln('WageMath');
      Gotoxy(37,13);
      textcolor(lightgreen);
      Writeln('Loading');
      Gotoxy(i+20,15);
      textcolor(yellow);
      Write('.');
      delay(110);
    End;
  textcolor(white);
  Design;
  For i:=17 To 25 Do
    Begin
      Gotoxy(37,12);
      textcolor(yellow);
      Writeln('WageMath');
      Gotoxy(37,13);
      textcolor(lightgreen);
      Writeln('Welcome to WageMath');
      Gotoxy(i+20,15);
      textcolor(lightrd);
      Write('.');
      delay(100);
    End;
  End;
//-----
Procedure Progress_Bar;
var
  i, j: Integer;
Begin
  j:=0;

```

```

ClrScr;
textcolor(white);
gotoxy(32,12);writeln('Aguarde Por favor...');
Textbackground(lightblue);
  for i := 30 to 54 do
    Begin
      j:=j+4;
      Gotoxy(41,14);
      textcolor(white);

      Writeln(j,'%');
      Gotoxy(i,13);
      textcolor(Black);
      Write(#223);
      delay(30);
    end;
    textcolor(white);
End;
{----Programa principal----}
Begin
  Design;
  Progress;
  start:
  Textcolor(white);
  Textbackground(blue);
  ClrScr;
  Textcolor(blue);
  Textbackground(lightcyan);
  gotoxy(26,3);writeln('_BEM VINDO AO MENU INICIAL_');
  Textcolor(white);
  Textbackground(blue);
  textcolor(black);gotoxy(2,30);writeln('Developer: Carlos Macaneta');
  textcolor(white);
  gotoxy(25,10);writeln('  [1] Iniciar sessao          ');
  gotoxy(25,11);writeln('  [2] Criar usuario          ');
  gotoxy(25,12);writeln('  [3] Opcoes                 ');
  gotoxy(25,13);writeln('  [4] Sair                   ');
  gotoxy(25,14);writeln('=====');
  gotoxy(25,15);write('>>> ');
  READLN(option);
  case(option)of
    1: Begin
      Assign(arq1, 'Utilizador.dat');
      Existe_Util(arq1);
      if(Existe_Util(arq1) = true)then
        Begin
          login:
          ClrScr;
          Textcolor(blue);
          Textbackground(lightcyan);
          gotoxy(33,3);writeln('_LOGIN DO ADMIN_');
          Textcolor(white);
          Textbackground(blue);
          gotoxy(25,12);write('Username: ');
          textcolor(lightgreen);readln(user);textcolor(white);
          for up := 1 to Length(user)do
            user[up] := upcase(user[up]);
          gotoxy(25,13);write('Password: ');
          textcolor(lightgreen);readln(pass);
          for up := 1 to Length(pass)do
            pass[up] := upcase(pass[up]);
          Assign(arq1, 'Utilizador.dat');
          Verifica_Util(arq1, user, pass);
          if(Verifica_Util(arq1, user, pass) = true)then
            Begin
              Progress_Bar;
              menu:
              Clrscr;
              Textcolor(blue);
              Textbackground(lightcyan);
              Gotoxy(33,3);writeln('_MENU PRINCIPAL_');
              Textcolor(white);
              Textbackground(blue);
              getdate(dia, mes, ano, weekday);
              gettime(hora, minuto, segundo, msegundo);
            end;
          end;
        end;
      end;
    end;
  end;
end;

```

```

gotoxy(5,5);writeln('My ID: ', admin.id);
gotoxy(38,5);writeln(hora,':',minuto);
gotoxy(64,5);writeln(ano,'/', mesdoano[mes], '/', dia);
gotoxy(25,12);writeln('[1] GERENCIAR FUNCIONARIOS');
gotoxy(25,13);writeln('[2] FOLHA DE AJUSTE SALARIAL');
gotoxy(25,14);writeln('[3] RELATORIO');
gotoxy(25,15);writeln('[4] VOLTAR AO MENU INICIAL');
gotoxy(25,16);writeln('-----');
gotoxy(25,17);write('>>> ');
readln(option);
case(option)of
  1: Begin
      menufunc:
        clrscr;
        textcolor(blue);
        textbackground(lightcyan);
        gotoxy(30,3);
        writeln(' _MENU FUNCIONARIO_ ');
        textcolor(white);
        textbackground(blue);
        gotoxy(20,8);writeln('[1] REGISTRAR FUNCIONARIO');
        gotoxy(20,9);writeln('[2] EDITAR PERFIL DO FUNCIONARIO');
        gotoxy(20,10);writeln('[3] REMOVER PERFIL DO FUNCIONARIO');
        gotoxy(20,11);writeln('[4] PESQUISAR FUNCIONARIO POR ID');
        gotoxy(20,12);writeln('[5] PESQUISAR FUNCIONARIO POR NOME');
        gotoxy(20,13);writeln('[6] VER PERFIL DE TODOS FUNCIONARIOS');
        gotoxy(20,14);writeln('[7] VOLTAR');
        gotoxy(20,15);writeln('-----');
        gotoxy(20,16);write('>>> ');
        readln(option);
      case(option)Of
        1: Begin
            assign(arq2, 'Funcionario.dat');
            existe_func(arq2);
            if(existe_func(arq2) = true)then
              Begin
                clrscr;
                assign(arq2, 'Funcionario.dat');
                adicionar_func(arq2);
                progress_bar;
                clrscr;
                textcolor(lightgreen);gotoxy(20,15);writeln('Funcionario registrado com sucesso. ');
                textcolor(white);gotoxy(20,16);writeln('Clique enter para voltar ao menu');
                readln; goto menufunc;
              End
            Else
              Begin
                clrscr;
                assign(arq2, 'Funcionario.dat');
                registro_func(arq2);
                clrscr;
                textcolor(lightgreen);gotoxy(20,15);writeln('Funcionario registrado com sucesso. ');
                textcolor(white);gotoxy(20,16);writeln('Clique enter para voltar ao menu');
                readln; goto menufunc;
              End
            end;
          end;
        2: Begin
            assign(arq2, 'Funcionario.dat');
            existe_func(arq2);
            if(existe_func(arq2) = true) then
              Begin
                clrscr;
                assign(arq2, 'Funcionario.dat');
                alterar_perfil_func(arq2, idF, nomefunc);
                goto menufunc;
              end
            Else
              Begin
                progress_bar;
                clrscr;
                textcolor(lightred);gotoxy(5,15);writeln('Sem registro de funcionarios em nosso sistema. ');
                textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');
                readln; goto menufunc;
              end;
            end;
          end;
      end;
    end;
  end;
end;

```

```

3: Begin
    Assign(arq2, 'Funcionario.dat');
    Existe_Func(arq2);
    if(Existe_Func(arq2) = true)then
        Begin
            ClrScr;
            Assign(arq2, 'Funcionario.dat');
            Eliminar_Func(arq2, idF, nomefunc);
            goto menufunc;
        End
    else
        Begin
            Progress_Bar;
            ClrScr;
            textcolor(lightrred);gotoxy(20,15);writeln('Sem registro de funcionarios em nosso sistema. ');
            textcolor(white);gotoxy(20,16);writeln('Clique enter para voltar ao menu');
            readln; goto menufunc;
        end;
    end;
4: Begin
    Assign(arq2, 'Funcionario.dat');
    Existe_Func(arq2);
    if(Existe_Func(arq2) = true)then
        Begin
            ClrScr;
            Assign(arq2, 'Funcionario.dat');
            PesquisaID_Func(arq2, idF);
            goto menufunc;
        End
    Else
        Begin
            Progress_Bar;
            ClrScr;
            textcolor(lightrred);gotoxy(20,15);writeln('Sem registro de funcionarios em nosso sistema. ');
            textcolor(white);gotoxy(20,16);writeln('Clique enter para voltar ao menu');
            readln; goto menufunc;
        end;
    end;
5: Begin
    Assign(arq2, 'Funcionario.dat');
    Existe_Func(arq2);
    if(Existe_Func(arq2) = true)then
        Begin
            ClrScr;
            Assign(arq2, 'Funcionario.dat');
            PesquisaNome_Func(arq2, nomefunc);
            goto menufunc;
        End
    Else
        Begin
            Progress_Bar;
            ClrScr;
            textcolor(lightrred);gotoxy(5,15);writeln('Sem registro de funcionarios em nosso sistema. ');
            textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');
            readln; goto menufunc;
        end;
    end;
6: Begin
    Assign(arq2, 'Funcionario.dat');
    Existe_Func(arq2);
    if(Existe_Func(arq2) = true)then
        Begin
            ClrScr;
            Assign(arq2, 'Funcionario.dat');
            listar_Func(arq2);
            writeln('Clique enter para voltar ao menu. ');
            readln; goto menufunc;
        End
    Else
        Begin
            Progress_Bar;
            ClrScr;
            textcolor(lightrred);gotoxy(5,15);writeln('Sem registro de funcionarios em nosso sistema. ');
            textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');
            readln; goto menufunc;
        end;
    end;

```

```

        end;
        end;
        7: goto menu;
        else goto menufunc;
    end;
End;
2: Begin
    ClrScr;
    Assign(arq2, 'Funcionario.dat');
    Existe_Func(arq2);
    if(Existe_Func(arq2) = true)then
        Begin
            ClrScr;
            Assign(arq2, 'Funcionario.dat');
            wage_Func(arq2);
            goto menu;
        end
    Else
        Begin
            Progress_Bar;
            ClrScr;
            textcolor(lightred);gotoxy(5,15);writeln('Sem registro de funcionarios em nosso sistema. ');
            textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');
            readln; goto menu;
        end;
    end;
3: Begin
    ClrScr;
    Assign(arq2, 'Funcionario.dat');
    Existe_Func(arq2);
    if(Existe_Func(arq2) = true)then
        Begin
            ClrScr;
            Assign(arq2, 'Funcionario.dat');
            Relatorio(arq2);
            goto menu;
        end
    Else
        Begin
            Progress_Bar;
            ClrScr;
            textcolor(lightred);gotoxy(5,15);writeln('Sem registro de funcionarios em nosso sistema. ');
            textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar ao menu');
            readln; goto menu;
        end;
    end;
4: GOTO start
    else goto menu;
end;
End
Else
    Begin
        gotoxy(25,12);textcolor(lightred);writeln('Username ou password incorrecto. ');
        gotoxy(25,13);textcolor(white);writeln('Tentar novamente?[S/N]');
        tecla := readkey;
        tecla := upcase(tecla);
        if(tecla = 'S') then goto login
        else
            Begin
                If(tecla = 'N')then goto start
                else RunError;
            end;
        end;
    end;
end
else
    Begin
        Progress_Bar;
        ClrScr;
        gotoxy(5,12);textcolor(lightred);writeln('Sem administradores registrados');
        textcolor(white);gotoxy(5,13);writeln('Click Enter para voltar ao menu inicial. ');
        readln;
        Goto start;
    end;
end;
end;
2: Begin

```

```

Assign(arq1, 'Utilizador.dat');
Existe_Util(arq1);
if(Existe_Util(arq1) = true)then
  Begin
    ClrScr;
    Assign(arq1, 'Utilizador.dat');
    Adicionar_Util(arq1);
    Progress_Bar;
    ClrScr;
    writeln('Administrador registrado com sucesso. ');
    writeln('Clique enter para voltar. ');
    readln; goto start;
  End
Else
  Begin
    ClrScr;
    Assign(arq1, 'Utilizador.dat');
    Registro_Util(arq1);
    Progress_Bar;
    ClrScr;
    writeln('Administrador registrado com sucesso. ');
    writeln('Clique enter para voltar. ');
    readln; goto start;
  end;
end;
3: Begin
  opcoes:
  Assign(arq1, 'Utilizador.dat');
  Existe_Util(arq1);
  if(Existe_Util(arq1) = True)Then
    Begin
      ClrScr;
      TEXTCOLOR(BLUE);
      TEXTBACKGROUND(LIGHTCYAN);
      gotoxy(22,2);writeln('_OPCOES PARA O ADMINITRADOR DO SISTEMA_ ');
      TEXTCOLOR(WHITE);
      TEXTBACKGROUND(BLUE);
      gotoxy(15,10);writeln(' [1] Consultar perfil do administrador ');
      gotoxy(15,11);writeln(' [2] Remover perfil do administrador ');
      gotoxy(15,12);writeln(' [3] Alterar perfí do administrador ');
      gotoxy(15,13);writeln(' [4] Voltar ao menu inicial ');
      gotoxy(15,14);writeln('=====');
      gotoxy(15,15);write('>>> ');
      readln(option);
      case(option)of
        1: Begin
          ClrScr;
          textcolor(blue);
          textbackground(lightcyan);
          gotoxy(33,3);writeln('_CONSULTAR PERFIL DO ADMINISTRADOR_ ');
          textcolor(white);
          textcolor(lightcyan);
          GOTOXY(10,7);write('ID do administrador: ');
          textcolor(yellow);readln(idA);textcolor(white);
          gotoxy(10,8);write('Nome do administrador: ');
          textcolor(yellow);readln(nomeadmin);textcolor(white);
          for up := 1 to Length(nomeadmin) do
            nomeadmin[up] := upcase(nomeadmin[up]);
          gotoxy(10,9);write('Password: ');textcolor(yellow);
          readln(passadmin);textcolor(white);
          for up := 1 to Length(passadmin)do
            passadmin[up] := upcase(passadmin[up]);
          Assign(arq1, 'Utilizador.dat');
          reset(arq1);
          for i := 0 to FileSize(arq1)-1 do
            Begin
              Seek(arq1, i);
              Read(arq1, admin);
              if(admin.id = idA) and (admin.nome = nomeadmin) and (admin.password = passadmin)then
                Begin
                  with admin do
                    Begin
                      Progress_Bar;
                      ClrScr;
                      textcolor(blue);

```



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        textbackground(lightcyan);
        gotoxy(28,3);writeln('_DADOS PESSOAIS_');
        textcolor(white);
        textbackground(blue);
        gotoxy(10,7);writeln('ID: ', id);
        gotoxy(10,8);writeln('NOME: ', nome);
        gotoxy(10,9);writeln('DATA DE NASCIMENTO: ', nasc);
        gotoxy(10,10);writeln('BILHETE DE IDENTIDADE: ', bi);
        gotoxy(10,11);writeln('SEXO: ', sexo);
        textcolor(blue);
        textbackground(lightcyan);
        gotoxy(24,13);writeln('_DADOS DE ACESSO AO SISTEMA_');
        TEXTCOLOR(white);
        textbackground(blue);
        gotoxy(10,16);writeln('Username: ', username);
        gotoxy(10,17);writeln('Password: ', password);
    end;
end
Else
Begin
    Progress_Bar;
    ClrScr;
    textcolor(lightred);gotoxy(2,5);writeln('Os dados introduzidos nao foram encontrados em nosso sist');
    textcolor(white);gotoxy(2,6);writeln('Clique enter para voltar');
    readln; goto opcoes;
end;
end;
Close(arq1);
end;
2: Begin
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    gotoxy(33,3);writeln('_REMOVER PERFIL DO ADMINISTRADOR_');
    textcolor(white);
    textcolor(lightcyan);
    GOTOXY(10,7);write('ID do administrador: ');
    textcolor(yellow);readln(idA);textcolor(white);
    gotoxy(10,8);write('Nome do administrador: ');
    textcolor(yellow);readln(nomeadmin);textcolor(white);
    for up := 1 to Length(nomeadmin) do
        nomeadmin[up] := upcase(nomeadmin[up]);
    gotoxy(10,9);write('Password: ');textcolor(yellow);
    readln(passadmin);textcolor(white);
    for up := 1 to Length(passadmin)do
        passadmin[up] := upcase(passadmin[up]);
    Assign(arq1, 'Utilizador.dat');
    reset(arq1);
    FOR i := 0 to FileSize(arq1)-1 do
        Begin
            Seek(arq1, i);
            Read(arq1, admin);
            if(admin.id = idA) and (admin.nome = nomeadmin) and (admin.password = passadmin)then
                Begin
                    close(arq1);
                    textcolor(yellow);gotoxy(10,10);writeln('Tem certeza de que deseja remover administrador[S/N]?');
                    tecla := readkey;
                    tecla := Upcase(tecla);
                    if(tecla = 'S')then
                        Begin
                            Reset(arq1);
                            Seek(arq1, i+1);
                            while not Eof(arq1)do
                                Begin
                                    Read(arq1, admin);
                                    Seek(arq1, FilePos(arq1)-2);
                                    write(arq1, admin);
                                    Seek(arq1, FilePos(arq1)+1);
                                end;
                            Seek(arq1, FilePos(arq1)-1);
                            Truncate(arq1);
                            Close(arq1);
                            Progress_Bar;
                            ClrScr;
                            gotoxy(5,10);textcolor(lightgreen);writeln('Administrador foi removido com sucesso.');
```

```

        gotoxy(5,11);textcolor(white);writeln('Clique enter para voltar. ');
        readln; goto opcoes;
    end
Else
    Begin
        if(tecla = 'N')then
            Begin
                Progress_Bar;
                ClrScr;
                gotoxy(5,10);writeln('Operacao cancelada. ');
                gotoxy(5,11);writeln('Click enter para voltar. ');
                Readln;
                goto opcoes;
            end
        else RunError;
        end;
    end
else
    Begin
        Progress_Bar;
        ClrScr;
        textcolor(lightred);gotoxy(2,5);writeln('Os dados introduzidos nao foram encontrados em nosso sistem
        textcolor(white);gotoxy(2,6);writeln('Clique enter para voltar');
        readln; goto opcoes;
    end;
end;

end;
3: Begin
    apa:
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    gotoxy(33,3);writeln('_ALTERAR PERFIL DO ADMINISTRADOR_ ');
    textcolor(white);
    textcolor(lightcyan);
    GOTOXY(10,7);writeln('[1] Alterar dados pessoais');
    gotoxy(10,8);writeln('[2] Alterar dados de acesso ao sistema');
    gotoxy(10,9);writeln('[3] Voltar');
    gotoxy(10,10);writeln('-----');
    gotoxy(10,11);write('>>> ');
    readln(option);
    case(option)of
        1: Begin
            ClrScr;
            textcolor(blue);
            textbackground(lightcyan);
            gotoxy(33,3);writeln('_ALTERAR PERFIL DO ADMINISTRADOR_ ');
            textcolor(white);
            textcolor(lightcyan);
            gotoxy(1,6);textcolor(yellow);writeln('NOTA: A data de nascimento, sexo e o n° de B.I sao dados que
            gotoxy(10,8);writeln('Nome do administrador: ');textcolor(yellow);
            readln(nomeadmin);textcolor(white);
            for up := 1 to Length(nomeadmin)do
                nomeadmin[up] := Uppcase(nomeadmin[up]);
            gotoxy(10,9);write('Password: ');textcolor(yellow);
            readln(passadmin);textcolor(white);
            for up := 1 to Length(passadmin)do
                passadmin[up] := upcase(passadmin[up]);
            Assign(arq1, 'Utilizador.dat');
            Reset(arq1);
            if(admin.nome = nomeadmin) and (admin.password = passadmin)then
                Begin
                    ClrScr;
                    textcolor(blue);
                    textbackground(lightcyan);
                    gotoxy(33,3);writeln('_ALTERAR PERFIL DO ADMINISTRADOR_ ');
                    textcolor(white);
                    textcolor(lightcyan);
                    gotoxy(10,7);write('Nome completo: ');
                    textcolor(yellow);readln(admin.nome);textcolor(white);
                    for up := 1 to Length(admin.nome)do
                        admin.nome[up] := Uppcase(admin.nome[up]);
                    Assign(arq1, 'Utilizador.dat');
                    Reset(arq1);

```

```

        write(arq1, admin);
        close(arq1);
        Progress_Bar;
        ClrScr;
        gotoxy(10,8);textcolor(lightgreen);writeln('Dados alterados com sucesso.');
```

gotoxy(10,9);textcolor(white);writeln('Click enter para voltar.');

```

        readln;
        goto apa;
    end
Else
    Begin
        Progress_Bar;
        ClrScr;
        gotoxy(5,15);textcolor(lightred);writeln('Os dados introduzudos nao foram encontrados em nosso s
        gotoxy(5,16);textcolor(white);writeln('Clique enter para voltar.');
        readln; goto apa;
    end;
end;
2: Begin
    ClrScr;
    textcolor(blue);
    textbackground(lightcyan);
    gotoxy(33,3);writeln('_ALTERAR DADOS DE ACESSO AO SISTEMA_');
    textcolor(white);
    textbackground(blue);
    GOTOXY(10,7);write('Nome: ');textcolor(yellow);
    readln(nomeadmin);textcolor(white);
    for up := 1 to Length(nomeadmin)do
        nomeadmin[up] := Upcase(nomeadmin[up]);
    gotoxy(10,7);write('Password: ');textcolor(yellow);
    readln(passadmin);textcolor(white);
    for up := 1 to Length(passadmin) do
        nomeadmin[up] := Upcase(nomeadmin[up]);
    if(admin.nome = nomeadmin) and (admin.password = passadmin) Then
        Begin
            textcolor(blue);
            textbackground(lightcyan);
            gotoxy(33,3);writeln('_ALTERAR DADOS DE ACESSO AO SISTEMA_');
            textcolor(white);
            textbackground(blue);
            gotoxy(5,6);textcolor(yellow);writeln('Introduza novos dados.');
            gotoxy(10,8);write('Username: ');textcolor(yellow);
            readln(admin.username);textcolor(white);
            for up := 1 to Length(admin.username)do
                admin.nome[up] := Upcase(admin.nome[up]);
            gotoxy(10,9);write('Password: ');textcolor(yellow);
            readln(admin.password);textcolor(white);
            Assign(arq1, 'Utilizador.dat');
            Reset(arq1);
            write(arq1, admin);
            Close(arq1);
            Progress_Bar;
            ClrScr;
            textcolor(lightgreen);gotoxy(10,8);writeln('Dados alterados com sucesso.');
            gotoxy(10,9);textcolor(white);writeln('Click enter para voltar.');
            readln;goto apa;
        End
    Else
        Begin
            Progress_Bar;
            ClrScr;
            gotoxy(5,15);textcolor(lightred);writeln('Os dados introduzudos nao foram encontrados em nosso s
            gotoxy(5,16);textcolor(white);writeln('Clique enter para voltar.');
            readln; goto apa;
        end;
    end;
3: goto opcoes
else goto apa;
end;
end;
4: goto start
else goto opcoes;
end;
End
Else
```

```
Begin
  Progress_Bar;
  ClrScr;
  textcolor(lightred);gotoxy(5,15);writeln('Sem administrador(es) registrado(s).');
  textcolor(white);gotoxy(5,16);writeln('Clique enter para voltar. ');
  readln; goto start;
end;
end;
4: exit;
else goto start;
end;
end.
```