

CSE326: INTERNET PROGRAMMING LABORATORY

K21PG - PROJECT REPORT

PROJECT TEAM NUMBER	K21PG_CSE326_04
PROJECT TITLE	Preparation buddy
PROJECT TEAM MEMBERS (REGISTRATION NUMBER – UID & NAME OF THE STUDENTS)	1. Tanishk Yadav (12101553)(project leader) 2. Anish Mainali (12101612) 3. Govinda sha(12101686)
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INTRODUCTION:



PREPARATION BUDDY

Preparation Buddy is a note-sharing non-profit website created for the betterment of students from different countries and universities around the world. It is a small effort to introduce education online and help the student community. With the help of a preparation buddy, anyone can contribute to making the notes available on the website better. With the help of a user-friendly interface, we are trying to provide notes available with us as well as take notes from all students who want to help others with their valuable notes and other student materials. It is a little project tried by a group of students from LPU B.Tech CSE students. With the help of other, we may take this website to a new height which may help more students who cannot effort books or who wants short cut and understandable easy notes. It is a students community website based on giving and taking and helping every one of the community as well as own self.

Nowadays these types of websites are very important for the students due to the online situation and due to which students with fewer materials to study cannot do better in their academic so at that time this website preparation buddy which is a website for the students by the students of the students by sharing notes and study materials.

MODULE DESCRIPTION:

1) Home:

It consists of the dashboard which has an overview of our notes sharing website Preparation Buddy i.e. Home, Contact, Feedback, About us, Sign in, register, Notes, and for the introduction and sharing the motto behind this website we have made learn more.

2) Notes:

It consists of the information of the available notes provided by the admins of our websites and through here a student can download as well as preview the notes of the different subjects in a simple and friendly manner. All the notes provided are handwritten and clean and we tried to upload as much as we can in here to help everyone.

3) Contact:

This page consists of the link to social media like Gmail as well as the contact numbers through which you can be near to us and help or get helped. Through this page, a user can suggest or asked questions to us directly can help us to improve our website in meantime.

4) Feedback:

Through this page, a user can give our website rating as well as share their feedback about our website how they feel to use this, and is this small step of work was really helpful to everyone or not. And through here they can share their problem and hope for solutions from us.

5) Learn more:

This page is the straight indication of the main reason why this website was made in the first place and what is going on here. A user can know more about our website and our motto and we would be honoured if anyone from my fellow students connects us in these pure moments of students for creating a student community that is pure of the students, for the students, by the students.

6) Sign in and Register:

This page is indicating the sign-in to our website through which students can explore our amazing notes and access them for free which is the login page for the website for the ongoing users. Likewise, for the students who had not registered on our website, we have provided the registration link through which a student can be a part of this moment of students for knowledge.

7) About Us

This page helps users to find out the information about the creators of the website and the personal contact number and the education of the each creator with their faces as we believe in transparency.

SOURCE CODE:

1) Preparation_buddy.html

```
<!DOCTYPE html>

<html >
  <head>

    <link rel="stylesheet" href="css\style.css">
  </head>
  <style>
    .nav {
      list-style: none;
      position: absolute;
      right: 50%;
      margin-right: 155px;
      margin-top: 220px;
    }

  </style>
<body background="Images\front.gif">

  <nav>

    <div class="menu">
      <div class="logo">
        <a href="#">Preparation buddy</a>
      </div>
      <ul>
        <li><a href="#">Home</a></li>
        <li><a href="D:\mywebsite\preparation buddy\navigation\aboutus.html">About</a></li>
        <li><a href="D:\mywebsite\preparation buddy\navigation\contact.html">Contact us</a></li>
        <li><a href="D:\mywebsite\preparation buddy\navigation\rating1.html">Feedback</a></li>
        <li><a href="D:\mywebsite\preparation buddy\navigation\login1.html"><b>Sign in</b></a></li>

      </div>
    </ul>
  </div>
</nav>
<div class="img"><background_img.jpg</div>
<div class="center">
  <div class="title"> Preparation buddy</div>
  <div class="sub_title">Notes sharing website</div>
  <div class="btns">
    <a href="navigation\learnmore.html">
      <button>Learn More</button></a>
    <a href="navigation\signup1.html">
      <button> Register</button>
    </a>

  </div>
</div>
</body>
</html>
```

2) Style.css

```
/*{
  margin: 0;
  padding: 0;
  box-sizing: border-box;
  font-family: 'Poppins', sans-serif;
}
::selection{
  color: #000;
  background: #fff;
}
nav{
  position: fixed;
  background: #1b1b1b;
  width: 100%;
  padding: 10px 0;
  z-index: 12;
}
nav .menu{
  max-width: 1250px;
  margin: auto;
  display: flex;
  align-items: center;
  justify-content: space-between;
  padding: 0 20px;
}
.menu .logo a{
  text-decoration: none;
```

```

    color: #fff;
    font-size: 35px;
    font-weight: 600;
}
.menu ul{
    display: inline-flex;
}
.menu ul li{
    list-style: none;
    margin-left: 7px;
}
.menu ul li:first-child{
    margin-left: 0px;
}
.menu ul li a{
    text-decoration: none;
    color: #fff;
    font-size: 18px;
    font-weight: 500;
    padding: 8px 15px;
    border-radius: 5px;
    transition: all 0.3s ease;
}
.menu ul li a:hover{
    background: #fff;
    color: black;
}
.center{
    position: absolute;
    top: 52%;
    left: 50%;
    transform: translate(-50%, -50%);
    width: 100%;
    padding: 0 20px;
    text-align: center;
}
.center .title{
    color: #fff;
    font-size: 55px;
    font-weight: 600;
}
.center .sub_title{
    color: #fff;
    font-size: 52px;
    font-weight: 600;
}
.center .btns{
    margin-top: 20px;
}
.center .btns button{
    height: 55px;
    width: 170px;
    border-radius: 5px;
    border: none;
    margin: 0 10px;
    border: 2px solid white;
    font-size: 20px;
    font-weight: 500;
    padding: 0 10px;
    cursor: pointer;
    outline: none;
    transition: all 0.3s ease;
}
.center .btns button:first-child{
    color: #fff;
    background: none;
}
.btns button:first-child:hover{
    background: white;
    color: black;
}
.center .btns button:last-child{
    background: white;
    color: black;
}
.topnav {
    overflow: hidden;
    background-color: #e9e9e9;
}

/* Style the links inside the navigation bar */
.topnav a {
    float: left;
    display: block;
    color: black;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;

```

```

font-size: 17px;
}

/* Change the color of links on hover */
.topnav a:hover {
background-color: #ddd;
color: black;
}

/* Style the "active" element to highlight the current page */
.topnav a.active {
background-color: #2196F3;
color: white;
}

/* Style the search box inside the navigation bar */
.topnav input[type=text] {
float: right;
padding: 6px;
border: none;
margin-top: 8px;
margin-right: 16px;
font-size: 17px;
}

/* When the screen is less than 600px wide, stack the links and the search field vertically instead of horizontally */
@media screen and (max-width: 100px) {
.topnav a, .topnav input[type=text] {
float: none;
display: block;
text-align: left;
width: 100%;
margin: 0;
padding: 20px;
}
.topnav input[type=text] {
border: 1px solid #ccc;
}
}

```

3) Contact

```

<!DOCTYPE html>
<html >
<head>

    <link rel="stylesheet" href="D:\mywebsite\preparation_buddy\css\contact.css"/>

</head>
<body background img="contact_img.jpg">
<div class="container">
    <div class="content">
        <div class="left-side">
            <div class="address details">
                <i class="fas fa-map-marker-alt"></i>
                <div class="topic">Address</div>
                <div class="text-one">Lovely professional university</div>
                <div class="text-two">jalandhar Punjab</div>
            </div>
            <div class="phone details">
                <i class="fas fa-phone-alt"></i>
                <div class="topic">Phone</div>
                <div class="text-one">7413938042</div>
                <div class="text-two">6280071769</div>
            </div>
            <div class="email details">
                <i class="fas fa-envelope"></i>
                <div class="topic">Email</div>
                <div class="text-one">preparationbuddy@gmail.com</div>
                <div class="text-two">info.preparationbuddy@gmail.com</div>
            </div>
        </div>
        <div class="right-side">
            <div class="topic-text">Send us a message</div>
            <p>If you have types of queries related to our website, you can send us message from here.</p>
            <form action="#">
                <div class="input-box">
                    <input type="text" placeholder="Enter your name">
                </div>
                <div class="input-box">
                    <input type="text" placeholder="Enter your email">
                </div>
                <div class="input-box message-box">
                    <form >
                        <div>
                            <textarea
                                name="feedback"

```

```

        id="101"
        placeholder="type your query here...."
        rows="5"
        columb="9"
    ></textarea>

</div>

</div>
<br>
<input type="reset" value="Send Now" >
</form>
</div>
</div>
</div>
</body>
</html>

```

4) Aboutus.html

```

<!DOCTYPE html>
<html>
<head>
    <style> body{
        background-color: aqua;
    }</style>
</style>
    body {

        font-family: Arial, Helvetica, sans-serif;
        margin: 0;
    }

    html {
        box-sizing: border-box;
    }

    *,*:before,*:after {
        box-sizing: inherit;
    }

    .column {
        float: left;
        width: 33.3%;
        margin-bottom: 20px;
        padding: 0 8px;
    }

    .card {
        box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);
        margin: 8px;
    }

    .about-section {
        padding: 50px;
        text-align: center;
        background-color: #474e5d;
        color: white;
    }

    .container {
        padding: 0 16px;
    }

    .container::after, .row::after {
        content: "";
        clear: both;
        display: table;
    }

    .title {
        color: grey;
    }

    .button {
        border: none;
        outline: 0;
        display: inline-block;
        padding: 8px;
        color: white;
        background-color: #000;
        text-align: center;
        cursor: pointer;
        width: 100%;
    }

    .button:hover {
        background-color: #555;
    }

```



```

}

.column {
  float: left;
  width: 33.33%;
  padding: 5px;
}

.row::after {
  content: "";
  clear: both;
  display: table;
}

.btn {
  background-color: DodgerBlue;
  border: none;
  color: white;
  padding: 12px 30px;
  cursor: pointer;
  font-size: 20px;
}

/* Darker background on mouse-over */
.btn:hover {
  background-color: RoyalBlue;
  background-size: cover;
}
</style>
</head>
<body >

  <u><h1><center>Notes</center></h1></u>
<h3><center>Please click in the download for download notes and for online reading click in the name of your
subject</center></h3>

<div class="row">
  <div class="column">
    
    <a href="c_programming.html"><h2>Computer programming</h2></a>
    <button class="btn"><i class="fa fa-download"></i> Download</button>

  </div>
  <div class="column">
    
    <a href="physic.html"><h2>Physics</h2></a>
    <button class="btn"><i class="fa fa-download"></i> Download</button>
  </div>

  <div class="column">
    
    <a href="phylab.html"><h2>Physics pratical</h2></a>

    <button class="btn"><i class="fa fa-download"></i> Download</button>
  </div>

  <div class="column">
    
    <a href="soft.html"><h2>Soft Skill</h2></a>
    <button class="btn"><i class="fa fa-download"></i> Download</button>
  </div>

  <div class="column">
    
    <a href="internet.html"><h2>Internet programming</h2></a>
    <button class="btn"><i class="fa fa-download"></i> Download</button>

  </div>

</div>

</body>
</html>

```

6) Feedback.html

```

<!DOCTYPE html>
<html>
<head>
  <style>
    body{
      background-image: url('rating.jpg');
      background-size: cover;
      color:aliceblue;
    }
  </style>
  <h1>Please rate our website</h1>
</head>
<body>

```



```

        <form class="rating">
            <label>
                <input type="radio" name="stars" value="1" />
                <span class="icon">★</span>
            </label><br>
            <label>
                <input type="radio" name="stars" value="2" />
                <span class="icon">★</span>
                <span class="icon">★</span>
            </label><br>
            <label>
                <input type="radio" name="stars" value="3" />
                <span class="icon">★</span>
                <span class="icon">★</span>
                <span class="icon">★</span>
            </label><br>
            <label>
                <input type="radio" name="stars" value="4" />
                <span class="icon">★</span>
                <span class="icon">★</span>
                <span class="icon">★</span>
                <span class="icon">★</span>
            </label><br>
            <label>
                <input type="radio" name="stars" value="5" />
                <span class="icon">★</span>
                <span class="icon">★</span>
                <span class="icon">★</span>
                <span class="icon">★</span>
                <span class="icon">★</span>
            </label><br>
        </form>
    <br><br>
    <h1>Give us your valuable feedback</h1>
    <form >
        <div>
            <textarea
                name="feedback"
                id="101"
                placeholder="please give your valuable feedback here"
                rows="5"
                columb="9"
            ></textarea>
        </div>
        </form>
        <a href="D:\mywebsite\preparation buddy\navigation\rating2.html">
            <button>submit</button></a>

</label>
</body>
</html>

```

7) Sign in.html

```

<!DOCTYPE html>
<!-- Created By CodingNepal -->
<html>
    <head>
        <style>
            .Login {
                background-color: #0f9ae5;
                border: none;
                color: white;
                padding: 8px 130px;
                text-align: center;
                text-decoration: none;
                display: inline-block;
                font-size: 16px;
                margin: 4px 2px;
                cursor: pointer;
            }
        </style>
        <title>signin form</title>
        <link rel="stylesheet" href="D:\mywebsite\preparation buddy\css\login.css">
    </head>
    <body background="D:\mywebsite\preparation buddy\Images\darkthem.jpg">
        <div class="bg-img">
            <div class="content">
                <header>Login Form</header>
                <form action="#">
                    <div class="field">
                        <span class="fa fa-user"></span>
                        <input type="text" required placeholder="Email or Phone">
                    </div>

```

```

        <div class="field space">
            <span class="fa fa-lock"></span>
            <input type="password" class="pass-key" required placeholder="Password">
            <span class="show">SHOW</span>
        </div>
        <div class="pass">
            <a href="#">Forgot Password?</a>
        </div>

    </form>
    <a href="D:\mywebsite\preparation buddy\after_sign_in.html" class="button">
        <button class="Login">login</button>
    </a>
    <div class="login">
        Or login with
    </div>
    <div class="links">
        <div class="facebook">
            <i class="fab fa-facebook-f"><span>Facebook</span></i>
        </div>
        <div class="instagram">
            <i class="fab fa-instagram"><span>Instagram</span></i>
        </div>
    </div>
    <div class="signup">
        Don't have account?
        <a href="D:\mywebsite\preparation buddy\navigation\signup1.html">Signup Now</a>
    </div>
</div>
</div>

</body>
</html>

```

Login.css

```

*{
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    user-select: none;
}
.bg-img{
    background: url('bg.jpg');
    height: 100vh;
    background-size: cover;
    background-position: center;
}
.bg-img:after{
    position: absolute;
    content: '';
    top: 0;
    left: 0;
    height: 100%;
    width: 100%;
    background: rgba(0,0,0,0.7);
}
.content{
    position: absolute;
    top: 50%;
    left: 50%;
    z-index: 999;
    text-align: center;
    padding: 60px 32px;
    width: 370px;
    transform: translate(-50%,-50%);
    background: rgba(255,255,255,0.04);
    box-shadow: -1px 4px 28px 0px rgba(0,0,0,0.75);
}
.content header{
    color: white;
    font-size: 33px;
    font-weight: 600;
    margin: 0 0 35px 0;
    font-family: 'Montserrat', sans-serif;
}
.field{
    position: relative;
    height: 45px;
    width: 100%;
    display: flex;
    background: rgba(255,255,255,0.94);
}
.field span{
    color: #222;
    width: 40px;
    line-height: 45px;
}
.field input{

```

```

height: 100%;
width: 100%;
background: transparent;
border: none;
outline: none;
color: #222;
font-size: 16px;
font-family: 'Poppins', sans-serif;
}
.space{
margin-top: 16px;
}
.show{
position: absolute;
right: 13px;
font-size: 13px;
font-weight: 700;
color: #222;
display: none;
cursor: pointer;
font-family: 'Montserrat', sans-serif;
}
.pass-key:valid ~ .show{
display: block;
}
.pass{
text-align: left;
margin: 10px 0;
}
.pass a{
color: white;
text-decoration: none;
font-family: 'Poppins', sans-serif;
}
.pass:hover a{
text-decoration: underline;
}
.field input[type="submit"]{
background: #3498db;
border: 1px solid #2691d9;
color: white;
font-size: 18px;
letter-spacing: 1px;
font-weight: 600;
cursor: pointer;
font-family: 'Montserrat', sans-serif;
}
.field input[type="submit"]:hover{
background: #2691d9;
}
.login{
color: white;
margin: 20px 0;
font-family: 'Poppins', sans-serif;
}
.links{
display: flex;
cursor: pointer;
color: white;
margin: 0 0 20px 0;
}
.facebook, .instagram{
width: 100%;
height: 45px;
line-height: 45px;
margin-left: 10px;
}
.facebook{
margin-left: 0;
background: #4267B2;
border: 1px solid #3e61a8;
}
.instagram{
background: #E1306C;
border: 1px solid #df2060;
}
.facebook:hover{
background: #3e61a8;
}
.instagram:hover{
background: #df2060;
}
.links i{
font-size: 17px;
}
i span{
margin-left: 8px;
font-weight: 500;
}

```

```

letter-spacing: 1px;
font-size: 16px;
font-family: 'Poppins',sans-serif;
}
.signup{
font-size: 15px;
color: white;
font-family: 'Poppins',sans-serif;
}
.signup a{
color: #3498db;
text-decoration: none;
}
.signup a:hover{
text-decoration: underline;
}
}

```

8) Register.html

```

<!DOCTYPE html>
<html>
  <head>
    <style>
      .register {
        background-color: #0f33e5;
        border: none;
        color: white;
        padding: 8px 140px;
        text-align: center;
        text-decoration: none;
        display: inline-block;
        font-size: 16px;
        margin: 4px 2px;
        cursor: pointer;
      }
    </style>
  </head>
  <link rel="stylesheet" href="D:\mywebsite\preparation buddy\css\signupstyle.css">
  </link>
  <body>
    <div class="wrapper">

      <div class="registration_form">
        <!-- Title -->
        <div class="title">
          Registration Form
        </div>

        <!-- Form -->
        <form>
          <div class="form_wrap">
            <div class="input_grp">

              <!-- Frist name input Place -->
              <div class="input_wrap">
                <label for="fname">First Name</label>
                <input type="text" id="fname">
              </div>

              <!-- Last Name input place -->
              <div class="input_wrap">
                <label for="lname">Last Name</label>
                <input type="text" id="lname">
              </div>

              <!-- Email Id input Place -->
              <div class="input_wrap">
                <label for="email">Email Address</label>
                <input type="text" id="email">
              </div>

              <!-- Contact no input -->
              <div class="input_wrap">
                <label for="contanct no">contact no</label>
                <input type="text" id="contanct no">
              </div>

              <!-- University Name input -->
              <div class="input_wrap">
                <label for="university">university</label>
                <select id="university" name="university">
                  <option value="eng">choose university</option>
                  <option value="eng1">LOVELY PROFESSIONAL UNIVERSITY</option>
                  <option value="eng2">IIT BOMBAY</option>
                  <option value="eng3">CHANDAGARDH UNIVERSITY</option>
                  <option value="eng4">AMITY UNIVERSITY</option>
                  <option value="eng5">Delhi UNIVERSITY</option>
                </select>
              </div>
            </div>
          </div>
        </form>
      </div>
    </div>
  </body>
</html>

```

```

<option value="eng6"> BITS Pilani</option>
<option value="eng8">Mumbai university</option>
<option value="eng9">Oxford University</option>
<option value="eng10">Cambridge University</option>

</select><br>
<input type="text" id="university">
</div>

<!-- User Select box -->
<div class="input_wrap">
<label><b>User</b></label>
<ul>
<li>
<label class="radio_wrap">
<input type="radio" name="user" value="student" class="input_radio" checked>
<span>student</span>
</label>
</li>
<li>
<label class="radio_wrap">
<input type="radio" name="user" value="teacher" class="input_radio">
<span>teacher</span>
</label>
</li>
</ul>
</div>

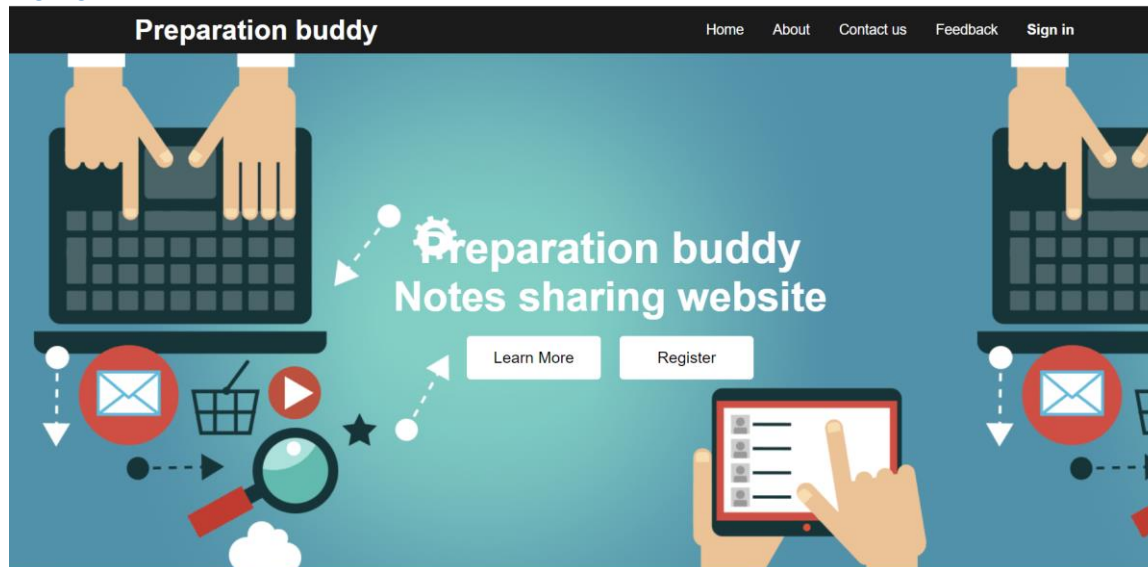
</div>
</form><br>
<a href="D:\mywebsite\preparation_buddy\preparation_buddy.html" class="button">
<button class="register">Register</button>
</a>
</div>
</div>

</body>
</html>

```

ALL OUTPUT SCREENSHOTS:

1) Home



2) Register

REGISTRATION FORM

First Name

Last Name

Email Address

contact no

university

choose university

User

student

teacher

Register

3) Login

Login Form

Email or Phone

Password

Forgot Password?

login

Or login with

Facebook

Instagram

Don't have account?

[Signup Now](#)

4) Learn more



About Preparation Buddy

Preparation Buddy is an online note sharing platform where users can download notes or read online in a real-time collaborative environment. Preparation Buddy is a note-sharing non-profit website created for the betterment of students from different countries and universities around the world. It is a small effort to introduce education online and help the student community. With the help of a preparation buddy, anyone can contribute to making the notes available on the website better. With the help of a user-friendly interface, we are trying to provide notes available with us as well as take notes from all students who want to help others with their valuable notes and other student materials. It is a little project tried by a group of students from LPU B.Tech CSE students. With the help of other, we may take this website to a new height which may help more students who cannot effort books or who wants short cut and understandable easy notes. It is a students community website based on giving and taking and helping every one of the community as well as own self.


Nowadays these types of websites are very important for the students due to the online situation and due to which students with fewer materials to study cannot do better in their academic so at that time this website preparation buddy which is a website for the students by the students of the students by sharing notes and study materials.

5) About Us


About Us Page

"Everything is easy if your are crazy."
"Nothing will be easy if your are lazy."


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6) Contact Us

Send us a message

If you have types of queries related to our website, you can send us message from here.

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7) Feedback

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8) Notes

Notes

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Sample of what inside note

Computer programming

C programming

C Programming Notes by ColekikiThary

What is Programming?
Computer Programming is a machine for us to communicate with computers. Just like we use Hindi or English to communicate with each other, programming is a way for us to deliver our instructions to the computer.

What is C?
C is a programming language. C is one of the oldest and first programming languages. C was developed by Dennis Ritchie at AT&T's Bell Labs, USA in 1972.

Uses of C
C language is used to program a wide variety of system. Some of the uses of C are as follows:

1. Major parts of Windows, Linux and other operating systems are written in C.
2. C is used to write driver programs for devices like tablets, printers etc.
3. C language is used to program embedded systems where program has to run faster. In embedded systems, resources are limited.
4. C is used to build games, an area where latency is very important in computer that must react quickly on user input.

Types of Variables
Primarily, there are three types of variables:

1. Integer Variable $\rightarrow -1, 0, 1, 2, 3$
2. Real Variable $\rightarrow -30.5, 15.3, 0$
3. Character Variable $\rightarrow 'a', 'b', 'c'$ (Only a single character)

Keywords
There are reserved words whose meaning is already known to the compiler. There are 32 keywords available in C.

Due First C Program

```
#include <stdio.h>

int main() {
    printf("Hello, I am learning C with Thary");
    return 0;
}
```

File: hello.c

Basic Structure of a C Program
All C programs have to follow a basic structure. A C program starts with a main function and contains instructions present inside it. Each instruction is terminated with a semicolon (;).

There are some rules which are applicable to all the C programs:

1. Every program's execution starts from main() function.
2. All the statements are terminated with a semicolon.
3. Instructions are case-sensitive.
4. Instructions are executed in the same order in which they are written.

Comments
Comments are used to clarify something about the program or plain language. It is a way for us to add notes to our program. There are two types of comments in C:

- Single line comment: // This is a comment
- Multi-line comment: /* This is a multi-line comment */

(Comments in a C program are not executed and are ignored.)

Chapter 1: Variables, Constants & Keywords

Variable
A variable is a container which stores a 'value'. In kitchen, we have containers storing rice, dal, sugar etc. Similarly, in that variables in C store values of a container. Example:

```
a = 3; // a is assigned '3'
b = 4.3; // b is assigned '4.3'
c = 'A'; // c is assigned 'A'
```

Rules for naming variables in C

1. First character must be an alphabet or underscore (_).
2. No spaces, blanks allowed.
3. No special symbols other than \$, #, @, %.
4. Variable names are case sensitive.

We must create meaningful variable names in our programs. The readability of our program is important. For values whose values should change, we called as a 'variable'.

A variable is an entity whose value can be changed.

Physic Lab

Practical 1

Name: Anish Moinall
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In find the value of plank's constant and photoelectric work function of the material of the cathode using a photoelectric cell.

THEORY:-

When light of suitable frequency is incident onto a clean metal surface it will cause electrons to leave that surface (the light will eject the electrons from the surface). This is called photoelectric effect and the electrons are called photoelectrons.

Fig: An experimental setup to study the photoelectric effect. The anode and cathode are enclosed in an evacuated glass tube. The voltmeter measures the electric potential difference between the electrodes, and the ammeter measures the photocurrent. The incident

Working formula:-

$$V = \left(\frac{h}{e}\right) \nu - \left(\frac{W_0}{e}\right)$$

where,
 W_0 \rightarrow work function of the metal
 V \rightarrow Stopping potential
 e \rightarrow electric charge
 h \rightarrow Planck's constant.

Observations:-

Cathode material: Sodium
 Plate area: 0.3 cm^2
 Intensity of light: 15 W/m^2
 Wavelength (nm): 544 nm

S.N.	Wavelength of the light (nm)	Frequency $\nu = \frac{c}{\lambda}$ (Hz)	Stopping potential (V) -ve
1	400	$0.75 \times 10^{15} \text{ Hz}$	0.9 V
2	316	$0.95 \times 10^{15} \text{ Hz}$	1.7 V
3	300	$1 \times 10^{15} \text{ Hz}$	1.9 V
4	272	$1.1 \times 10^{15} \text{ Hz}$	2.5 V
5	248	$1.2 \times 10^{15} \text{ Hz}$	2.8 V

Graph

END