INTRODUCTION
When it comes to human lips, Cheiloscopy is one of the most important fields in forensic dentistry. This approach, which dates back to the 1930s, is used to identify individuals. Lip vermilion furrows are examined for their supposed particular pattern, to be more precise. Lip print patterns, ethnic diversity, and sexual dimorphism are all topics of discussion in the real world. Fingerprint, dental, and genetic analysis are scientifically accepted methods for identifying human beings. According to the authors of cheiloscopy studies, lip prints can aid in the identifying procedure by filtering down prospective victims based on sex. Cheiloscopy has a large and expanding body of research in the scientific community today. Lip prints have the "so-called" advantage that no two people will have the same pattern of furrows, which is supposedly true. Lip prints can also be seen on cigarette butts, napkins, and glasses, according to authors. There are clear-cut furrows that run partially or entirely across the lips, but most prevalence studies are restricted to samples that do not even represent the area in which they were taken. There are three basic types of lip shape: horizontal, raised, and depressed. Lips thin as we become older, resulting in a less defined appearance. Plastic surgery has created techniques to replicate and generate fuller, broader lips as a result of this belief that youthful lips are rounded and full in appearance. Distinctive variations in grooves and pattern details can be seen in different lip prints due to variances in furrow number and location and their relationship to other furrows as well as general differences in thickness, length and difficulty of branching. Unlike fingerprints, Tsuhihashi found that once a person's lip prints are generated, they are unlikely to alter over the course of their lifetime.

Consider the current gap in the utility of lip print patterns, and the urgent need to encourage evidence-based science, this study was designed this study to determine the predominant lip print pattern found among female students and employees of Peshawar medical college. The results of the present study will give an insight into the magnitude of problem and will provide local baseline statistical data for further research in this regard.

MATERIAL AND METHODS
This cross sectional study was conducted at Forensic Medicine Laboratory of Peshawar Medical College from November 2021 to April 2022. Sampling was done from students and employees of Peshawar medical college by convenient method. Our hospital’s Ethics Committee has authorised this project. After obtaining their written agreement, participants were invited to participate in the study. A total of 107 (74 females, and 33 employees) voluntary participants both students and employees were included in the study. Participants were healthy young people with normal lip mucosa who had no history of lip illness. Anyone with a congenital lip abnormality (such as cleft lip), as well as those who were allergic to the lip stick or had a medical condition of any kind, were not allowed to participate in our study. The study’s methodology and goals were clearly described to all participants, and they were made to feel at ease. Before applying the lip-stick, the lips were cleansed and a thin layer of dark red lip-stick was applied. Paper folded in half was placed between their lips and they were instructed to exert even pressure with their mouths. Once “unfolded,” the lip was separated into four sections using a dental formula that is commonly employed. All four quadrants of the lip prints were examined by a magnifying lens and a second check was performed before the data was entered. The Suzuki and Tsuchihashi classification system was used to sort the lip prints (Fig. 1). SPSS version 20.0 was used for data entry and statistical analyses. A chi-square test was employed to determine the pattern of females’ lip prints. The 5% level of significance is used to determine significance.

Fig. 1: Lip print classification by Suzuki and Tsuchihashi (1970) displaying patterns
RESULTS
The commonest lip print pattern in the study group was Type V (28.97%) and the least was Type I’ (11.21%). The lip print showed different patterns in each subject. The lip prints did not contain simply one type of pattern rather was a combination of varying types, which made it complex and unique. No two people possessed the same lip prints.

Table 1: Demographic data of Participants of the study

<table>
<thead>
<tr>
<th>Designation</th>
<th>No. Students</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st year student</td>
<td>15</td>
<td>14.01%</td>
</tr>
<tr>
<td>2nd year student</td>
<td>12</td>
<td>11.21%</td>
</tr>
<tr>
<td>3rd year student</td>
<td>15</td>
<td>14.01%</td>
</tr>
<tr>
<td>4th year student</td>
<td>18</td>
<td>16.82%</td>
</tr>
<tr>
<td>Final year student</td>
<td>14</td>
<td>13.08%</td>
</tr>
<tr>
<td>Employee</td>
<td>33</td>
<td>30.84%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>107</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Table 2: Frequency and percentage of lip print among females

<table>
<thead>
<tr>
<th>S &amp; T Classification</th>
<th>Frequency</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type I</td>
<td>16</td>
<td>14.95%</td>
</tr>
<tr>
<td>Type II</td>
<td>12</td>
<td>11.21%</td>
</tr>
<tr>
<td>Type III</td>
<td>20</td>
<td>18.69%</td>
</tr>
<tr>
<td>Type IV</td>
<td>13</td>
<td>12.14%</td>
</tr>
<tr>
<td>Type V</td>
<td>31</td>
<td>28.97%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>107(100)</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

DISCUSSION
A new approach to civilizational patterning is the use of human identification. It aids in categorising people into distinct categories based on their age, gender, and race. Since the Roman era, scientists have been trying to identify people based on the unique traits of their teeth and jaws. The use of cheiloscopy in criminal case identification is a useful auxiliary technique. In terms of morphology, lip patterns are unmatched. They are compared to fingerprints in that they are the most crucial type of evidence.15

Type V lip pattern was the commonest in our population. Type III lip pattern prevalence has been observed by Narang et al. from Punjab, India.16 Although Type V lip pattern was the most common, we also found types III and IV to be present, as well as types II and I. Among the Libyan populace, Syed Walli Peeran et al study.’s found that Type I was the most prevalent personality type.17 In a study of Iranians, Mohfehji et al. found that Type V was the most common, followed by type I, type II, type IV, and type I’ type.18 According to Vats et al., type I’ was the most prevalent in Indian Brahmins, followed by types II, III, and I. 19 In the Moradabad (India) population, Singh J et al. discovered that type I lip patterns were the most prevalent, followed by types III, IV, type II, and type V.20

According to these findings, it appears that each population has a distinct lip shape. Different genetic upbringing could explain the discrepancy.

Among females, type II was found to be the most prevalent lip pattern, followed by type III, type I, type V, type IV, and type I. According to Gaba et al., type II lip pattern was the most common in Mangalore females, followed by type III and type I.21 Gugutothu et al. also observed that type II females in Andhra Pradesh were the most numerous.22 Our findings in females are equivalent to this. However, our findings differ from those of Iranian researchers Moshefhi et al., who found that type V lip pattern was most common in females, followed by types I and II.18 According to another Libyan demographic survey, type I lip patterns predominate in Libyan females, followed by type II.17

CONCLUSION
It might be said that lip prints are distinctive, and that using them to identify people. The results showed that print of any two lips were not matched exactly. The patterns did not reveal any significant variability with regards to gender or ethnicity. Thus, trivializing the concept that lip prints can be used as a good indicator for gender determination.

REFERENCES