

# WPS ASSIGNMENT-II

1602-18-733-306

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CSE-A

1) Design an application to run the payroll of an individual with a valid UID

a) A web-page to collect UID (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0//EN
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<script type="text/javascript">
```

```
var usr, regexp
```

```
function formvalidator()
```

```
{  
    usr = document.getElementById("field1")
```

```
    regexp = /^[1-4][A-Z][A-Z][0-9][0-9]  
[A-Z][A-Z][0-9][0-9][0-9]$/;
```

```
if (usr.value.length == 0)
```

```
{  
    alert("USN is empty");  
    return;
```

```
}
```

```
else if (!usr.value.match(/regex/))
```

```
{  
    alert(usr.value + "in entered USN is wrong!!!,  
    in it should be in DUUDDUUDDDD format");  
    return;
```

```
}
```

```
alert(usr.value + "in USN is in: correct format");
```

```
}
```

```
</script>
```

```
<head><title> USN validator </title></head>
```

```
<body>
```

```
<form onsubmit="return form validation()">
```

```
<h4>Enter your USN. in DUUDDUUDDDD format:
```

```
<input type="text" id="field1"/></h4>
```

where D stands for digit and U stands for  
upper case letter

```
<input type="submit" value="check field"/>
```

```
</form>
```

```
</body>
```

```
</html>
```

Output :-

Run 1:

Enter your USN. in DUUDDUUDDDD format:

UMH09CS040

where D stands for digit and U stands for uppercase letter

check field

Message from webpage	X
UMH09CS040	
USN is in correct format	
OK	

Run 2:

Enter your USN. in DUUDDUUDDDD format:

UMH91S13

where D stands for digit and U stands for uppercase letter

check field

Message from webpage	X
UMH91S13	
Entered USN is wrong!!!	
it should be in DUUDDUUDDDD format	
OK	

b) write Servlet program to retrieve salary information using JDBC API and display in the above format. Assume Basic salary, conv is available in DB. remaining parameters are to be computed after retrieving basic salary (BS), DA - 2% of BS, HRA 30% of BS, spl Allow 4.5% of BS. PF, PT are standard values. TDS is 10% of earnings.

```
import java.sql.*; public class DBAccess {
    public DBAccess() {
        connection cn;
        preparedstatement ps;
        resultset rs;
        class.forName("com.mysql.jdbc.Driver");
```

```
cn = DriverManager.getConnection
```

```
("jdbc:mysql://localhost/SANDHYAemployee", "root", "root");
```

```
} catch (SQLException e)
```

```
{ System.out.println("Database connected.");
```

```
}
```

```
catch (Exception e)
```

```
{ System.out.println("Database not connected.");
```

```
}
```

```
public void insert (String id, String name,
    String addr, String dob, String cell,
    double salary) {
```

try {

ps = cn.prepareStatement("insert into  
employee values (?, ?, ?, ?, ?, ?)");

ps.setString(1, id);

ps.setString(2, name);

ps.setString(3, addr);

ps.setString(4, dob);

ps.setString(5, cell);

ps.setDouble(6, salary);

ps.executeUpdate();

}

System.out.println("ID | NAME | ADDRESS  
DOB | PHONE | SALARY

}

Output:-

EMP ID 16

Employee Name : SANDIPA

PF. No KN/US887/1016 Designation Operator

Earnings	Rate	Amount	Deduction	Amount
BASIC	20,00,00	20,00,00	PF	2,280.00
DA	4,00,00	4,00,00	PT	200
HRA	4,600,00	5000	TDS	4,042
CONV	800,00	6000		
SPL Allow	5,600,00	7000		
Total	40,00,00	40,00,00	Total	7,122.00