Practical 6

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Roll no:-A4_B1_05

CODE:-

```
def binaryst():
    n=4
    keys=[10,20,30,40]
    q=[0.05,0.1,0.05,0.05,0.1]
        E[i][i]=p[i]+q[i]+q[i+1]
        W[i][i]=p[i]+q[i+1]
    for length in range (2, n+1):
        for i in range(n-length+1):
            j=i+length-1
            E[i][j]=float('inf')
            W[i][j]=W[i][j-1]+p[j]+q[j+1]
            for r in range(i,j+1):
                left cost = E[i][r-1] if r > i else 0
                right_cost = E[r+1][j] if r < j else 0</pre>
                cost = left cost + right cost + W[i][j]
                if cost<E[i][j]:</pre>
                     E[i][j]=cost
    return E[0][n-1]
result=binaryst()
print(result)
```

OUTPUT:-

```
2.45
=== Code Execution Successful ===
```

Task 2:-

