

## 22/07/2002 , For loop Practice

1. print all vowels from list of single chars ?

```
list = ["sriram", "sairam", "divakar", "ravi", "Raju"]
new = []
for i in list:
    for j in i:
        if j in "aeiouAEIOU":
            new += j
print(new)
o/p :-- ['i', 'a', 'a', 'i', 'a', 'i', 'a', 'a', 'a', 'i', 'a', 'u']
```

2. print all str which are len > 5 and push to new list ?

```
list = ["sriram", "sairam", "divakar", "ravi", "Raju"]
new = []
for i in list:
    if len(i) > 5:
        new.append(i)
print(new)
o/p:-- ['sriram', 'sairam', 'divakar']
```

3. print all odd indices values in list ?

```
list = ["sriram", "sairam", "divakar", "ravi", "Raju", 66, 88, 33.5, True, False]
new = []
for i in range(1, len(list), 2):
    new.append(list[i])
print(new)
o/p:--- ['sairam', 'ravi', 66, 33.5, False]
```

4. print all odd indices values and find only str and that too len > 3 and len < 5 ?

```
list = ["sriram", "sairam", "divakar", "ravi", "Raju", 66, 88, 33.5, True, False, "raviteja", "raviraju"]
new = []
for i in range(1, len(list), 2):
    new.append(list[i])
# print(new)
for j in new:
    # print(j)
```

```
if type(j) == str:
    if len(j) > 3 and len(j) < 5:
        print(j)
```

o/p:--- ravi

5. print all even indices values from list and push to new list .?

```
list =
["sriram", "sairam", "divakar", "ravi", "Raju", 66, 88, 33.5, True, False, "raviteja", "raviraj
u"]
new = []
for i in range(0, len(list), 2):
    new.append(list[i])
print(new)
o/p:--- ['sriram', 'divakar', 'Raju', 88, True, 'raviteja']
```