```
[7]: # Q1
v = ["Harshvardhan",[1,2,3,4,"ABCD"],1.25,(1,2,3)]
v

[7]: ['Harshvardhan', [1, 2, 3, 4, 'ABCD'], 1.25, (1, 2, 3)]

[]: #Q2
i)Str
ii)Str
iii)List
iv)Float

[]: #Q3
i)used to divide 4/2 = 2
ii)used to find remainder 4%2 = 0
iii)used to divide and takes floor value 10//3 = 3
iv)used to find the power 2**2 = 4
```

```
#Q4
1 = [1,2,3,4.4,"Harshvardhan",3+7j,'a','b',9,10]
for i in 1:
    print(i)
1
2
3
4.4
Harshvardhan
(3+7j)
a
Ь
9
10
#Q5
A = 10
B = 2
count = 0
while A%B==0 :
      A = A/B
      count=count+1
print(count)
1
#Q6
l=[i for i in range(1,26)]
for i in 1 :
    if i % 3 == 0 :
         print(i)
3
6
9
12
15
18
21
24
```

```
#Q7
#Immutable : we cannot change their value once assigned
1 = [1,2,3,4,6]
1[3]='Riya'
1
[1, 2, 3, 'Riya', 6]
s ="Harshvardhan"
s[4]="v"
5
                                           Traceback (most recent call last)
Cell In[16], line 3
      2 5 ="
  --> 3 s[4]=
      4 5
TypeError: 'str' object does not support item assignment
5
'Harshvardhan'
```