Assigment No: 3

q.1) what is data type & diff type of datatype.

Data _typ :- it Defines what type of data
that variable is pointing.

Numeric-type : ① int ② Float ③ Complex.

1) int - Stores integer values.
2) fout - defines decimal floating values
3) complex - defines number it contains
real & imaginary

Sequential - type :- List, tuple, Dict, string

Boolean - type :- True, False

Special - type : - none. - It used to
define null value or

no value.

q.2) what is list ?
list → list is collection of heterogenous
data, which is mutable,
by using index we can acces elements
of list, list is ordered.
list can allow duplicatie
It defines by [ ]
eg: List1 = [1, 2, 3.4, 'a', True]

Q3)create a heterogenous list and one homogeneous list and print them and also print length of each?

```
main.py
1  l1=[1,3.4,'d',6,7,'c',9,'a']
2  l2=[10,20,30,40,50]
3  print(l1,"length: ",len(l1))
4  print(l2,"length: ",len(l2))
5
6
7
8
```

```
[1, 3.4, 'd', 6, 7, 'c', 9, 'a'] length:  8
[10, 20, 30, 40, 50] length:  5

...Program finished with exit code 0
Press ENTER to exit console.
```

Q-4) l=[1,2,3,4,'d',6.7,'c',9,'a']

      write code to print using slicing

      1- 'd' 2- 'c' 3- 'a'

```
main.py
1  l=[1,2,3.4,'d',6.7,'c',9,'a']
2
3  print(l[3::2])
4  print(l[-1:-6:-2])
5
6
```

```
['d', 'c', 'a']
['a', 'c', 'd']


...Program finished with exit code 0
Press ENTER to exit console.
```

Q5)Make a dynamic app where user will input

      Name, Age, Matches, Runs, Avg, fifties, centuries, Batting Best, Overs, Wickets, Bowling Best of a cricketer and create a interesting story of that user using this data of that cricketer .

```python
Name=input("Enter Name ")
Age=int(input("Enter Age "))
Matches=int(input("Enter Matches "))
Runs=int(input("Enter Runs "))
Avg=float(input("Enter Avg "))
fifties=int(input("Enter fifties "))
centuries=int(input("Enter centuries "))
Batting_Best=int(input("Enter Batting Best "))
Overs=int(input("Enter Overs "))
Wickets=int(input("Enter Wickets "))
Bowling_Best=int(input("Enter Bowling Best"))

print(Name,"Whoes age is ",Age,"Played",Matches,
"in the year 2024 and made",Runs,"Runs")
print("Along with that he did ",fifties,
"fifties",centuries,"centuries in,",
Overs,"Overs")
print("He made ",Batting_Best,"Battings we can say he is best in batting")
print("He made",Bowling_Best,"Bowling")
print("Overall in 2024",Wickets,"Wikets He did")
```

```
Enter Name Virat Kohali
Enter Age 34
Enter Matches 50
Enter Runs 2000
Enter Avg 50
Enter fifties 25
Enter centuries 15
Enter Batting Best 25
Enter Overs 18
Enter Wickets 5
Enter Bowling Best10
Virat Kohali Whoes age is  34 Played 50 in the year 2024 and made 2000 Runs
Along with that he did  25 fifties 15 centuries in, 18 Overs
He made  25 Battings we can say he is best in batting
He made 10 Bowling
Overall in 2024 5 Wikets He did
```