

# NEWS-TRACKER APPLICATION

## ASSIGNMENT-1

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**1.Programs On Lists(Insertion,Remove,Append,Sort,Pop and Reverse) :**

```
a = []
print("1.INSERT\n2.REMOVE\n3.APPEND\n4.SORT\n5.POP\n6.REVERSE")
n=int(input("No of elements : "))
for i in range(0,n):
    ele=int(input())
    a.append(ele)
Ch=input("Enter choice ")
if Ch=='1':
    #insertion
    ind=int(input("Enter the index : "))
    nw=int(input("Enter the element to insert : "))
    a.insert(ind,nw)
    print(a)
elif Ch=='2':
    #Removing_1st_occurence
    a.remove(0)
    print(a)
elif Ch=='3':
    #Append_atlast
    ap=int(input("Element to append "))
    a.append(ap)
    print(a)
elif Ch=='4':
    #Sorting
    a.sort()
    print(a)
```

```
elif Ch=='5':
    #Pop_last_element
    a.pop()
    print(a)
elif Ch=='6':
    #REVERSE
    a.reverse()
    print(a)
```

SAMPLE I/O :

Enter Number of elements : 3

3

2

1

1.Insert 2.Remove 3.append 4.sort 5.pop 6.Reverse

Enter the Choice : 6

Reversed : [1,2,3]

---

## 2. Calculator Program :

```
def add(n1,n2):
    return n1+n2
def sub(n1,n2):
    return n1-n2
def mul(n1,n2):
    return n1*n2
def div(n1,n2):
    return n1/n2
print("1.ADD\n2.SUB\n3.MULTIPLY\n4.DIVIDE\n")
c=input("Enter choice ")
n1=int(input("N1? "))
n2=int(input("N2? "))
if c=='1':
    print(add(n1,n2))
elif c=='2':
    print(sub(n1,n2))
elif c=='3':
    print(mul(n1,n2))
```

```
elif c=='4':  
    print(div(n1,n2))
```

Sample I/O :

1.ADD

2.SUB

3.MULTIPLY

4.DIVIDE

Enter the choice : 2

N1? 21

N2? 23

-2

---

### 3.Program to perform STRING Concatenation, Reverse and Slicing

```
print("1.Concatenate\n2.Reverse\n3.Slicing")
```

```
c=input("Enter the choice : ")
```

```
if c=='1':#concatenate
```

```
    s1=input("Enter s1: ")
```

```
    s2=input("Enter the s2: ")
```

```
    print(s1+s2)
```

```
elif c=='2':#reverse
```

```
    s=input("Enter String ")
```

```
    print(s[::-1])
```

```
elif c=='3':#slicing
```

```
    st=input("String? ")
```

```
    i=int(input("Start with ? "))
```

```
    j=int(input("End with ? "))
```

```
    print(st[i:j])
```

Sample i/o:

1.Concatenate

2.Reverse

3.Slicing

Enter the choice : 3

String? Ariharan Shanmugam

Starting from? 4

End with? 10

o/p : aran Sha

---

#### **4.Why Python is popular programming Language ?**

- 1. The python language is one of the most accessible programming language**
- 2. Because it has simplified syntax and not complicated,which gives more emphasis on natural language.**
- 3. It is easy to learn and use.Python codes can be easily written and executed**
- 4. Much faster than other programming languages.**
- 5. Python has multi libraries and frameworks that can be used by the developers.These libraries are really useful in saving time which in turn makes the language more useful.**

#### **5.What are the Frameworks that can be used with python?**

**Python framework provides a well-defined structure for app development. Since they can automate the implementation of some standard solutions, they not only reduce the development time significantly but also allow developers to focus on the core application logic instead of routine elements.**

**Essentially,python frameworks are categorized into three types:**

- 1.Full-stack Frame work**
- 2.Micro Framework.**
- 3.Asynchronous Frame work.**

**Some of the frame works are,**

- 1.Django**
- 2.Pyramid**
- 3.Turbo gears**
- 4.Web2py**
- 5.CherryPy**
- 6.Flask**
- 7.Sanic.**

#### **6.Full form of WSGI?**

**The full form of WSGI is Web Server Gateway Interface.**

**It is a simple calling convention for web servers to forward request to Web application or frameworks written in python programming language.**