1Calculate the product of elements in a list using a for loop

```
f=[1,2,3,4,5]
prod=1
for x in range(len(f)):
   prod*=f[x]
print(prod)
```

2.Print numbers in reverse from 10 to 1using a for loop:

```
f=[1,2,3,4,5]
print(f[::-1])
```

3.Find the largest number in a list using a for loop

```
  [3, 9, 1, 6, 2, 8]
```

```
f=[24, 3, 9, 1, 6, 2, 8, 11, 10 1]
largest=0
for x in f:
   for y in f:
      if x>largest:
         largest=x
print(largest)
```

4.Print all uppercase letters in a string using a for loop: "Hello World"

```
s="Hemanth Mandarapu"
for char in s:
   if char.isupper():
      print(char)
```

5.Find the first occurrence of a number in a list using a while loop:

```
l=[1,2,3,4,5,1,3]
idx=0
target=3

while idx < len(l):
   if l[idx]==target:
      print(idx)
      break
   idx+=1
```

6.Print numbers in a list until a negative number is encountered using a while loop: [1, 4, 6, 8,

10, -3, 5, 7]

```
l=[1, 4, -2, 6, 8, 10, -3, 5, 7]
idx=0
while idx < len(l):
    if(l[idx]>0):
        print(l[idx])
    else:
        break
    idx+=1
```

7.Print numbers from 1to 10. If a number is even, break the loop using a for loop and else clause:

```
for x in range(1,11):
    if(x%2==0):
        pass
    else:
        print(x)
```

8. Draw below pattern

Enter the row size for the pattern: 5

* * * * *

* * * *

* * *

* *

*

```
s=int(input("Enter the row size:"))
while s>0:
    print("*"*s)
    s-=1
```

9.draw below pattern

Enter the row size for the pattern: 5

* * * * *

*   *

*   *

*   *

* * * * *

```python
s = int(input("Enter the row size:"))
i=0
while i<s:
    if i==0 or i==s-1:
        j=0
        while j<s:
            print("*", end=" ")
            j+=1
    else:
        print("* ", end="")
        j=0
        while j< s-2:
            print("  ",end="")
            j+=1
        print("*", end="")
    print()
    i+=1
```