DAY 2 PROGRAMS

1.

```
| Gdef maxProfit(price, n):
| profit = [0] * n | max_price = price[n - 1] |
| for i in renge(n - 2, 0, -1):
| if price[i] > max_price:
| max_price = price[i] |
| profit[i] = max(profit[i + 1], max_price - price[i]) |
| min_price = price[o] |
| for i in renge(1, n):
| if price[i] < min_price:
| min_price = price[i] |
| profit[i] = max(profit[i - 1], profit[i] + (price[i] - min_price |
| result = profit[n - 1] |
| return result |
| price = [2, 30, 15, 10, 8, 25, 80] |
| print("Maximum profit is", maxProfit(price, len(price))) |
```

2.

3.

5.

```
def reverse(s):
    str = ""
    for i in s:
        str = i + str
    return str

print("The original string is : ", end="")
print(s)

print("The reversed string(using loops) is : ", end="")
print(reverse(s))
```

7.

```
from itertools import permutations
a=permutations ([1,2,3],2)
for i in a:
    print(i)
```

8.

```
s1=input("enter a string")
s2=input("enter a string")
if(sorted(s1)==sorted(s2)):
    print("anagram")
else:
    print("not anagram")
```

10.