DAY – 1   STRING & PATTERN PROBLEMS

1.Reverse a string without built-in funtions

```
n = int(input("Enter a number: "))

rev = 0

while n > 0:

   r= n%10

   rev=(rev*10)+r

   n=n//10

print("Reversed number =", rev)
```

#output

Enter a number: 34567

Reversed number = 76543

2. check if a string is palindrome

```
s = input("Enter a string: ")

if s == s[::-1]:

   print("Palindrome")

else:

   print("Not Palindrome")
```

#ouput

Enter a string: madam

Palindrome

Enter a string: sree

Not Plindrome

3. count no of vowels and consonents in a string

```python
s = input("Enter a string: ").lower()

vowels = 0

consonants = 0

for char in s:

    if char in "aeiou":

        vowels += 1

    elif char .isalpha():

        consonants += 1

print("Vowels:", vowels)

print("Consonants:", consonants)
```

#output

Enter a string: hello world

Vowels: 3

Consonants: 7

4. remove all spaces from a string.

```python
s = input("Enter a string: ")

s = "".join(s.split())

print("String without spaces:", s)
```

#output

Enter a string: hello world program

String without spaces: helloworldprogram

5. count frequency of each char in a string

```python
s = input("Enter a string: ")

for ch in set(s):
```

```
 print(ch, ":", s.count(ch))
```

#output

Enter a string: apple

p : 2

l : 1

e : 1

a : 1