TASK 5

1) WRITE A PROGRAM TO REVERSE A GIVEN STRING.

PROGRAM

```python
string1="python"
length=len(string1)-1
result=""
for ch in range(length,-1,-1):
    result=result+string1[ch]
print(result)
```

OUTPUT

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/reverse.py
nohtyp
PS C:\Users\Admin\Desktop\task>
```

2) WRITE A PROGRAM IN PYTHON TO PRINT THE CHARACTERS PRESENT AT EVEN INDEX AND ODD INDEX SEPERATELY FOR THE GIVEN STRING.

PROGRAM

```python
string="python"
even=[]
odd=[]
for i in string:
    if string.index(i)%2==0:
        even.append(i)
    else:
        odd.append(i)
print("even index :" ,even)
print("odd index :",odd)
```

OUTPUT

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS
PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/index.py
even index : ['p', 't', 'o']
odd index : ['y', 'h', 'n']
PS C:\Users\Admin\Desktop\task>
```

3) PROGRAM TO MERGE STRING ALTERNATELY USING PYTHON.

PROGRAM

```python
string1=input("enter string1:")
string2=input("enter string2:")
s1_length=len(string1)
s2_length=len(string2)


output=""

sm_length= s1_length if s1_length<s2_length else s2_length

for i in range(0,sm_length):
    output+=string1[i]+string2[i]

rem=string1[s2_length:] if s1_length>s2_length else string2[s1_length:]
output+=rem
print(output)
```

OUTPUT

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS                              Python  + ∨  ☐  🗑  ⋯  ∧  ✕

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/mergestring.py
enter string1:major
enter string2:general
mgaejnoerral
PS C:\Users\Admin\Desktop\task> ▮
```

4) PROGRAM TO SORT CHARACTERS OFTHE STRINGS, FIRST SYMBOL FOLLOWED BY DIGITS.

PROGRAM

```python
string1="A2B4C6"
alpha=[]
digit=[]
for t in string1:
    if t.isalpha():
        alpha.append(t)
    else:
        digit.append(t)
result="".join(alpha+digit)
print(result)
```

OUTPUT

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS                              Python  + ∨  ☐  🗑  ⋯

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/A
Desktop/task/stringsort.py
ABC246
PS C:\Users\Admin\Desktop\task>
```

5) PROGRAM TO FIND THE NUMBER OF OCCURANCES OF EACH VOWELS PRESENT IN THE GIVEN STRING.

PROGRAM

```python
text="hellopython"

vowels=["a","e","i","o","u"]
wc={ch:text.count(ch) for ch in set(text) if ch in vowels}
print(wc)
```

OUTPUT

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS                    Python + ∨ ☐ 🗑 ··· ∧ ✕

PS C:\Users\Admin\Desktop\task> & C:/Users/Admin/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Admin/
Desktop/task/vowels.py
{'e': 1, 'o': 2}
PS C:\Users\Admin\Desktop\task>
```