

1) Write a Python function to check whether a string is a pangram or not.

Note : Pangrams are words or sentences containing every letter of the alphabet at least once.

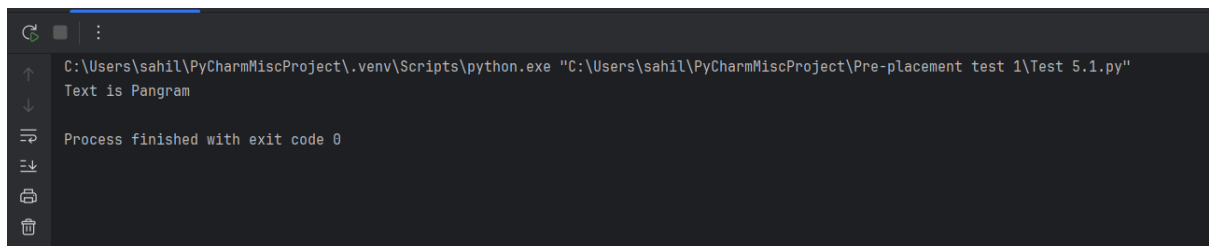
For example : "The quick brown fox jumps over the lazy dog"

ANS:

```
def pangram(text):  
    text = text.lower()  
    for i in range(ord('a'), ord('z') + 1):  
        if chr(i) not in text:  
            return False  
    return True
```

```
text = "The quick brown fox jumps over the lazy dog"
```

```
if pangram(text):  
    print("Text is Pangram")  
else:  
    print("Text is NOT Pangram")
```



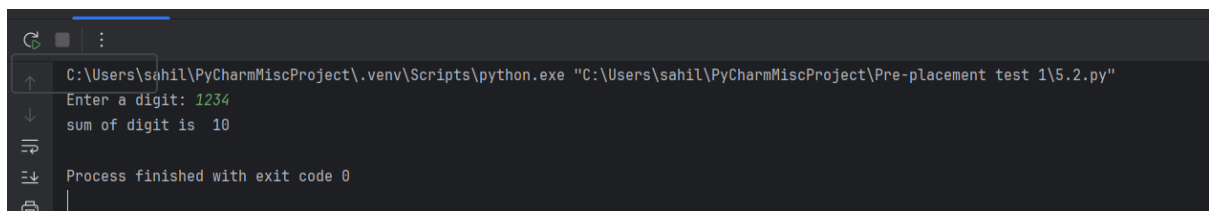
```
C:\Users\sahil\PyCharmMiscProject\.venv\Scripts\python.exe "C:\Users\sahil\PyCharmMiscProject\Pre-placement test 1\Test 5.1.py"  
Text is Pangram  
Process finished with exit code 0
```

Q.2) Write a Python program to calculate the sum of the digits in an integer.

ANS:

```
digit=int(input("Enter a digit: "))
digits=len(str(digit))
sum=0
```

```
for i in range(1,(digits+1)):
    s=digit%10
    sum+=s
    digit=digit//10
print("sum of digit is ",sum)
```



```
C:\Users\sahil\PyCharmMiscProject\.venv\Scripts\python.exe "C:\Users\sahil\PyCharmMiscProject\Pre-placement test 1\5.2.py"
Enter a digit: 1234
sum of digit is 10
Process finished with exit code 0
```

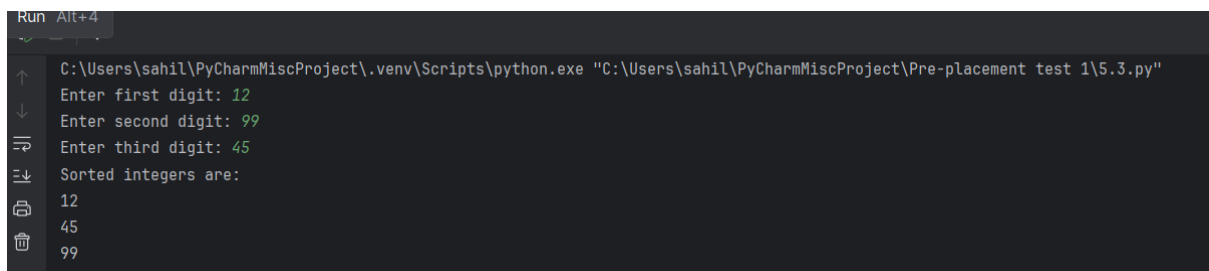
Q.3) Write a Python program to sort three integers without using conditional statements and

loops. [u can use built in functions for this]

ANS:

```
a=int(input("Enter first digit: "))
b=int(input("Enter second digit: "))
c=int(input("Enter third digit: "))
```

```
l=[a,b,c]
l.sort()
print(l)
```



The screenshot shows a terminal window with the following output:

```
Run Alt+F4
C:\Users\sahil\PyCharmMiscProject\.venv\Scripts\python.exe "C:\Users\sahil\PyCharmMiscProject\Pre-placement test 1\5.3.py"
Enter first digit: 12
Enter second digit: 99
Enter third digit: 45
Sorted integers are:
12
45
99
```

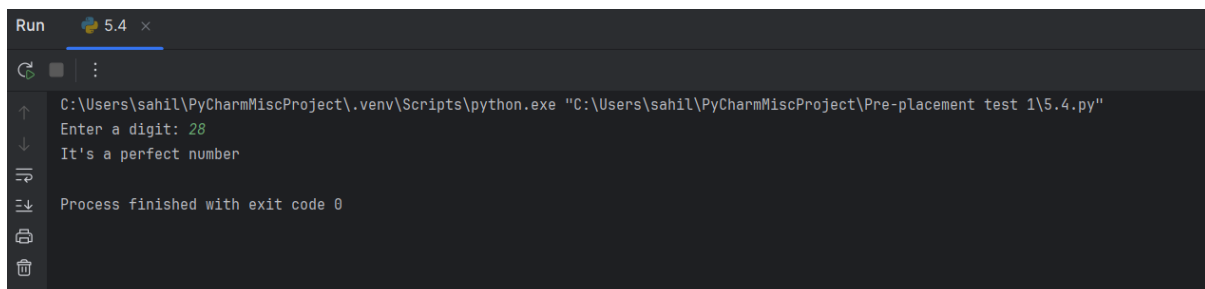
Q.4) Write a Python function to check whether a number is perfect or not.

ANS:

```
digit=int(input("Enter a digit: "))
l=[]
for i in range(1,digit):
    if digit %i ==0:
        l.append(i)

a=sum(l)

if a==digit:
    print("It's a perfect number")
else:
    print("It's not a perfect number")
```

A screenshot of a terminal window titled 'Run' with a Python 5.4 icon. The terminal shows the execution of a Python script. The command is 'C:\Users\sahil\PyCharmMiscProject\.venv\Scripts\python.exe "C:\Users\sahil\PyCharmMiscProject\Pre-placement test 1\5.4.py"'. The output shows 'Enter a digit: 28' followed by 'It's a perfect number'. The terminal concludes with 'Process finished with exit code 0'. On the left side of the terminal, there is a vertical toolbar with icons for running, stepping through, and other debugging actions.

```
Run 5.4 x
C:\Users\sahil\PyCharmMiscProject\.venv\Scripts\python.exe "C:\Users\sahil\PyCharmMiscProject\Pre-placement test 1\5.4.py"
Enter a digit: 28
It's a perfect number
Process finished with exit code 0
```