# Assignment -2

### **Python Programming**

Assignment Date	29 September 2022
Team ID	PNT2022TMID44156
Student Name	Nabesha Fathima A
Student Roll Number	724019104016
Maximum Marks	2 Marks

#### Question-1:

Write a Python program to find the difference between the largest integer and the smallest integer which are created by 8 numbers from 0 to 9. The number that can be rearranged shall start with 0 as in 00135668.

0

```
print("Input an integer created by 8 numbers from 0 to 9.:")
num = list(input())
print("Difference between the largest and the smallest integer
from the given integer:")
print(int("".join(sorted(num,reverse=True))) -
int("".join(sorted(num))))
```



#### Question-2:

Write a Python program to replace a string "Python" with "Java" and "Java" with "Python" in a given string.

```
print("Input a text with two words 'Python' and 'Java'")

text = input().split()

for i in range(len(text)):
    if "Python" in text[i]:n = text[i].index("Python");text[i] = text[i][:n] + "Java" + text[i][n + 6:]
    elif "Java" in text[i]:n = text[i].index("Java");text[i] = text[i][:n] + "Python" + text[i][n + 4:]

print(*text)

print("Input a text with two words 'Python' and 'Java'")

text = input().split()
```

```
main.py

Shell

I print("Input a text with two words 'Python' and 'Java'")

text = input().split()

3 - for i in range(len(text)):

if "Python" in text[i]:n = text[i].index("Python"); text[i] = text[i][:n] + "Java" + text[i][n + 6:]

elif "Java" in text[i]:n = text[i].index("Java"); text[i] = text[i][

:n] + "Python" + text[i][n + 4:]

for print(*text)

Shell

Input a text with two words 'Python' and 'Java'

Java is Easier than Python

Python is Easier than Java

> |

for print(*text) |

Shell

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Input a text with two words 'Python' and 'Java'

Input a text
```

### Question-3:

Write a Python program to that reads a date (from 2016/1/1 to 2016/12/31) and prints the day of the date. Jan. 1, 2016, is Friday. Note that 2016 is a leap year.

```
from datetime import date

print("Input month and date (separated by a single
space):")
m, d = map(int, input().split())

weeks =
{1:'Monday',2:'Tuesday',3:'Wednesday',4:'Thursday',5:'Friday',6:'Sat urday',7:'Sunday'}

w = date.isoweekday(date(2016, m, d))
print("Name of the date: ",weeks[w])
```

```
moin.py

Shell

Clear

from datetime import date

print("Input month and date (separated by a single space):")

main.py

Shell

Input month and date (separated by a single space):

print("Input month and date (separated by a single space):

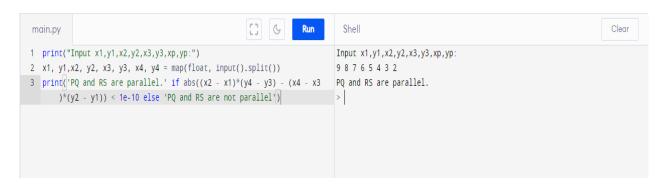
name of the date: Saturday

name of the date: Saturday

print("Name of the date: ",weeks[w])
```

### Question-4:

Write a Python program to test whether two lines PQ and RS are parallel. The four points are P(x1, y1), Q(x2, y2), R(x3, y3), S(x4, y4).



## Question-5:

Write a Python program that accepts six numbers as input and sorts them in descending order.

```
print("Input six integers:")
nums = list(map(int, input().split()))
nums.sort()
nums.reverse()
print("After sorting the said ntegers:")
print(*nums)
```

```
main.py

1 print("Input six integers:")
2 nums = list(map(int, input().split()))
3 nums.sort()
4 nums.reverse()
5 print("After sorting the said ntegers:")
6 print(*nums)

Clear

Input six integers:
20 30 40 50 60 70
After sorting the said ntegers:
70 60 50 40 30 20

> |
```