# Assignment -1

## **Python Programming**

Assignment Date	29 September 2022
Team ID	PNT2022TMID44143
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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.

#### Solution:

```
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.

# **Solution:**

```
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()
```



### 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.

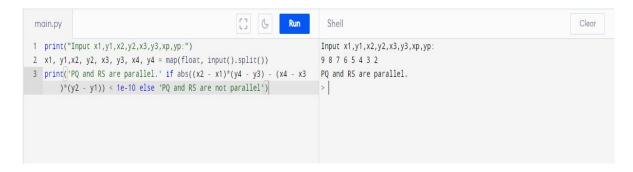
## **Solution:**

```
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])
                                         6
                                                     Shell
                                                                                                  Clear
 main.py
 1 from datetime import date
                                                    Input month and date (separated by a single space):
 2 print("Input month and date (separated by a single space):")
                                                    12 3
 3 m, d = map(int, input().split())
                                                    Name of the date: Saturday
 4 weeks = {1:'Monday',2:'Tuesday',3:'Wednesday',4:'Thursday',5:'Friday',6 >
      : 'Saturday',7: 'Sunday'}
 5 w = date.isoweekday(date(2016, m, d))
 6 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).

#### Solution:



## Question-5:

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

### **Solution:**

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