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Assignment(1): Python Application Programming

1. Write a program using python to increment a number if it is positive.

```python
# prog_1
x = int(input("Enter a number"))
if x > 0:
    print("Number is positive so it will becomes x+1 i.e",x+1)
else:
    print("X is not a positive number")
```

2. Write a program using python to determine whether a person is eligible to vote or not.

```python
#prog_2
age = int(input("Enter the age of a person"))
if age >= 18:
    print("You are eligible to vote")
else:
    print("You are not eligible to vote")
```

3. Write a python program to find the larger of two numbers.

```python
#prog_3
a = int(input("Enter first number"))
b = int(input("Enter second number"))
if a>b:
    print(a,"is larger")
else:
    if a==b:
        print("Both are equal i.e",a)
    else:
        print(b,"is larger")
```

4. Write a python program to determine whether the character entered is vowel or not.

```python
#prog_4
ch = input("Enter a character")
if ch[0] in ('a','e','i','o','u','A','E','I','O','U'):
    print("character entered is a vowel")
else:
    print("character entered is not vowel")
```

5. Write a python program that prompts the user to enter a number between 1- 7 and then display the corresponding day of the week.

```python
#prog_5
day = int(input("Enter the number between 1 to 7\n'1' represent
monday, '2' represent tuesday and so on..."))
if day>0 and day<=7:
    if day == 1:
        print("MONDAY")
    elif day == 2:
        print("TUESDAY")
    elif day == 3:
        print("WEDNESDAY")
    elif day == 4:
        print("THURSDAY")
    elif day == 5:
        print("FRIDAY")
    elif day == 6:
        print("SATURDAY")
    else:
        print("SUNDAY")
else:
    print("Invalid number, enter between 1 to 7")
```