



WORKSHEET - 1.2

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Subject Name: PROGRAMMING IN PYTHON Subject Code: 21CSP-259

1. **Aim:** Program to demonstrate the use of if, if-else, while, for, break and continue statements.

- Python Program to check whether a given number is a palindrome.
- Python Program to check whether entered number is Armstrong or Not?
- Python Program to Take three numbers from the user and print the greatest number

2. **Source Code:**

WAP to check whether the given number is palindrome

```
x = int(input("Enter number to check whether the number is Palindrome or not: "))
```

```
num = 0            #num is temporary variable
```

```
n = x            #Using n for the operations in While Loop
```

```
while n > 0:
```

```
    r = n%10
```

```
    num = (num)*10+r
```

```
    n = n//10
```

```
                #using while loop
```

```
                #finding last digit of the number
```

```
                #reversing the number
```

```
                #eliminating last digit
```

```
if(num == x):
```

```
    print("Yes")
```

```
else:
```

```
    print("Not")
```

```
                #if num is equal to it's reverse then it's palindrome
```

```
Enter number to check whether the number is Palindrome or not: 121
Yes
```

```
Enter number to check whether the number is Palindrome or not: 153
Not
```

WAP to check whether the given number is Armstrong

```
num = int(input("Enter number: "))
flag = 0                                #using this flag to check if number is Armstrong
or not
x = num

while(x > 0):                           #using while loop
    r = x%10                            #getting last digit of the number
    flag = r**3 + flag                  #Armstrong number's condition
    x = x//10
if(flag == num):
    print("Yes, Armstrong!")
else:
    print("Nope it is not!")
```

```
Enter number: 153
Yes, Armstrong!
```

```
Enter number: 121
Nope it is not!
```

WAP to Take three numbers from the user and print the greatest number



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```
x = int(input("Enter first number: "))
y = int(input("Enter second number: "))
z = int(input("Enter third number: "))
max = 0                                #variable to store greatest number
if(x>y):                                #using nested if-else structure to find
    greatest number
    if(x>z):
        max = x
    else:
        max = z
else:
    if(y>z):
        max = y
    else:
        max = z

print("Maximum number is: ",max)        #printing greatest number
```

```
Enter first number: 15
Enter second number: 20
Enter third number: 25
Maximum number is: 25
```