



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

WORKSHEET 1.2

NAME – SABHYA MAHAJAN
DATE – 10/02/23
SECTION – 21BCS801-A

UID – 21BCS9200
SUBJECT – PYTHON
SEM – 4TH

1. Aim:

- 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

- **Python Program to check whether a given number is a palindrome.**

❖ Source Code

```
num = 1221
temp = num
reverse = 0
print("Name - SABHYA MAHAJAN , UID - 21BCS9200 \n")

while temp > 0:
    remainder = temp % 10
    reverse = (reverse * 10) + remainder
    temp = temp // 10
if num == reverse:
    print("You entered ", num)
    print("The Number You Entered is Palindrome . ")
else:
    print("Not Palindrome")
```



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Output:

```
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> & C:/Users/lenovo/AppData/Local/Programs/Python/Python311/python.exe c:/Users/lenovo/OneDrive/Desktop/PRO/Python/first.py
Name - SABHYA MAHAJAN , UID - 21BCS9200

You entered 1221
The Number You Entered is Palindrome .
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> █
```

- Python Program to check Whether entered number is Armstrong or Not?

❖ Source Code

```
print("Name - SABHYA MAHAJAN UID - 21BCS9200\n")

num = int(input("Enter a number: "))
sum = 0
temp = num
while temp > 0:
    digit = temp % 10
    sum += digit**3
    temp //= 10
if num == sum:
    print(num, "is an Armstrong number")
else:
    print(num, "is not an Armstrong number")
```

Output:

```
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> & C:/Users/lenovo/AppData/Local/Programs/Python/Python311/python.exe c:/Users/lenovo/OneDrive/Desktop/PRO/Python/first.py
Name - SABHYA MAHAJAN UID - 21BCS9200

Enter a number: 153
153 is an Armstrong number
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> █
```



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- Python Program to Take three numbers from the user and print the greatest number

❖ Source Code

```
print("Name - SABHYA MAHAJAN , UID - 21BCS9200 \n")

a = int(input("Enter first number : "))
b = int(input("Enter second number : "))
c = int(input("Enter third number : "))
largest = 0
if a > b and a > c:
    largest = a
elif b > c:
    largest = b
else:
    largest = c
print(largest, "is the largest of three numbers.")
```

Output:

```
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> & C:/Users/lenovo/AppData/Local/Programs/Python/Python311/python.exe c:/Users/lenovo/OneDrive/Desktop/PRO/Python/first.py
Name - SABHYA MAHAJAN , UID - 21BCS9200

Enter first number : 3
Enter second number : 5
Enter third number : 9
9 is the largest of three numbers.
PS C:\Users\lenovo\OneDrive\Desktop\PRO\Python> █
```