Basic Python Programs

1. Print Your Name and Age

```python
name = "Alice"

age = 25

print("Name:", name)

print("Age:", age)
```

2. Add Two Numbers Entered by User

```python
a = int(input("Enter first number: "))

b = int(input("Enter second number: "))

print("Sum:", a + b)
```

3. Swap Two Variables

```python
x = 5

y = 10

x, y = y, x

print("x:", x, "y:", y)
```

4. Find the Largest of Three Numbers

```python
a, b, c = 10, 20, 15

largest = max(a, b, c)

print("Largest number is", largest)
```

5. Check Even or Odd

```python
num = int(input("Enter a number: "))

if num % 2 == 0:

    print("Even")

else:

    print("Odd")
```

6. Check if a Number is Prime

```python
num = 29
```

```python
if num > 1:

    for i in range(2, num):

        if (num % i) == 0:

            print(num, "is not prime")

            break

    else:

        print(num, "is prime")

else:

    print(num, "is not prime")
```

7. Print All Prime Numbers in a Range

```python
for num in range(10, 50):

    if num > 1:

        for i in range(2, num):

            if (num % i) == 0:

                break

        else:

            print(num, end=' ')
```

8. Count Vowels in a String

```python
s = "Hello World"

vowels = "aeiouAEIOU"

count = sum(1 for char in s if char in vowels)

print("Vowel count:", count)
```

9. Reverse a String

```python
s = "Python"

print("Reversed:", s[::-1])
```

10. Demonstrate split() and strip()

```python
text = "  Hello Python World  "

print(text.strip())

words = text.strip().split()

print(words)
```