



In [ ]: *# Task 1: Write a Python program to find the largest of three numbers.*

```
n1 = float(input("Enter first number: "))
n2 = float(input("Enter second number: "))
n3 = float(input("Enter third number: "))

if (n1 >= n2 and n1 >= n3):
    print("The largest of three numbers is: ",n1)
elif (n2 >= n1 and n2 >= n3):
    print("The largest of three numbers is: ",n2)
else:
    print("The largest of three numbers is: ",n3)
```

The largest of three numbers is: 47.0

In [ ]: *# Task 2: Create a program that checks if a number is even or odd.*

```
n = int(input("Enter any number: "))

if ((n % 2) == 0):
    print(n,"is an even number!")
else:
    print(n,"is a odd number!")
```

36 is an even number!

In [ ]: *# Task 3: Write a program that prints numbers from 1 to 100 but skips numbers*

```
for i in range(1,101):
    if (i % 7 == 0):
        continue
    print(i, end = ' ')
```

1 2 3 4 5 6 8 9 10 11 12 13 15 16 17 18 19 20 22 23 24 25 26 27 29 30 31 32 33  
34 36 37 38 39 40 41 43 44 45 46 47 48 50 51 52 53 54 55 57 58 59 60 61 62 64 6  
5 66 67 68 69 71 72 73 74 75 76 78 79 80 81 82 83 85 86 87 88 89 90 92 93 94 95  
96 97 99 100

In [ ]: *# Task 4: Write a program to print the multiplication table of a given number*

```
n = int(input("Enter a number: "))
for i in range(1,11):
    print(n,"x",i,"=",n*i)
```

5 x 1 = 5  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
5 x 7 = 35  
5 x 8 = 40  
5 x 9 = 45  
5 x 10 = 50

In [ ]: *# Task 5: Write a program that uses a nested loop to print a right-angled triangle*

```
user_input = int(input("Enter the range: "))
for a in range(1,user_input+1):
    for j in range(a):
        print("*",end="")
    print()
```

```
*
**
***
****
*****
*****
```

In [1]: *# Task 6: Create a Python program that prints the following pattern using nested loops:*

```
# 1
# 12
# 123
# 1234
```

```
for i in range(1,5):
    for a in range(1,i+1):
        print(a,end="")
    print()
```

```
1
12
123
1234
```

In [ ]: *# Task 7: Create a Python program to check if a character entered by the user*

```
character_name = input("Enter a character: ")
if len(character_name) == 1 and character_name.isalpha():
    if (character_name == 'a' or character_name == 'A'):
        print(character_name,"It is a vowel!")
    elif (character_name == 'e' or character_name == 'E'):
        print(character_name,"It is a vowel!")
    elif (character_name == 'i' or character_name == 'I'):
        print(character_name,"It is a vowel!")
    elif (character_name == 'o' or character_name == 'O'):
        print(character_name,"It is a vowel!")
    elif (character_name == 'u' or character_name == 'U'):
        print(character_name,"It is a vowel!")
    else:
        print(character_name,"It is a consonant!")
else:
    print(character_name,"Not a valid character!")
```

g It is a consonant!

In [ ]: *# Task 8. Write a Python program that generates a diamond pattern of stars For*

```
...
```

```

*
***
*****
*****
*****
*****
*****
***
*
...
for i in range(6):
    print("*"*(2*i-1))
for a in range(4,0,-1):
    print("*"*(2*a-1))

```

```

*
***
*****
*****
*****
*****
*****
***
*

```

In [ ]: *# Task 9: Write a Python program to reverse the digits of a given number.*

```

n = int(input("Enter a number: "))
reverse = 0
while n > 0:
    last_digit = n % 10
    reverse = reverse * 10 + last_digit
    n = n // 10
print("reversed number is:",reverse)

```

reversed number is: 1538

In [ ]: *# Task 10. Create a Python program that generates the following pyramid pattern*

```

"""
1
121
12321
1234321
123454321
"""
for i in range(1, 6):
    for j in range(1, i + 1):
        print(j, end=" ")
    for j in range(i-1,0,-1):
        print(j,end=" ")
    print()

```

```
1
121
12321
1234321
123454321
```

In [ ]: