

# **An Introduction to Python programming**

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## if, elif, else

```
if not done and (x > 1):
```

```
    doit()
```

```
elif done and (x <= 1):
```

```
    dothis()
```

```
else:
```

```
    dothat()
```

# while, for

**while True:**

**line = input("Please enter a sentence: ")**

**if len(line) == 0:**

**break**

**print(line)**

**for letter in 'Hello, world':**

**print (letter)**

**for i in range(2,10,2):**

**print (i)**

**For Loop:**

**1.Variable in For Loop**

**2.Range function**

```
for i in range(4):  
    print('*'*6)# there are 4 spaces before 'p'
```

**What do you do if being asked to print a triangle of \*s?**

**What do you do if being asked to print a right triangle of \*s?**

**What do you do if being asked to print an isosceles triangle of \*s?**

**What do you do if being asked to print an equilateral triangle of \*s?**

```
print('A')  
print('B')  
for i in range(5):  
    print('C') # there are 4 spaces before 'p'  
    print('D') # there are 4 spaces before 'p'  
print('E')
```

```
for i in range(5,0,-1):  
    print(i, end=' '  
    print('Blast off!!')
```



```
for i in range(5,0,-1):  
    print(i, end=' ')  
    print('Blast off!!')
```

```
for i in range(5,0,-1):  
    print(i)  
    print('Blast off!!')
```

```
for i in range(5,0,-1):  
    print(i, end=' ')  
    print('Blast off!!')
```

```
for i in range(5,0,-1):  
    print(i)  
    print('Blast off!!')
```

```
for i in range(5,0,-1):  
    print(i, end=' ')  
    print('Blast off!!')
```

How to test if a number is prime?

**i = 2**

**num = eval(input('Please enter a number: '))**

**while 1==1:**

**if (i == num):**

**print(num, ' is prime')**

**break**

**if (num%i) == 0:**

**print(num, ' is not prime', i)**

**break**

**i = i + 1**