if...statement

```
a=10

b=15

if(a>b):

    print("a is big")

else:

    print("b is big")
```

if…elif…statement

```python
a=10
b=10
if(a>b):
    print("a is greater")
elif(b>a):
    print("b is greater")
else:
    print("Both a and b are equal")
```

Switch/Match statement...

```python
subject="HTML"

match subject:

    case "HTML":

        print("HyperText Markup Language")


    case "CSS":

        print("Cascading Style Sheet")

    case _:

        print("Unknown")
```

Printing with end parameter

By default, the print function ends with a newline.

Passing the whitespace to the end parameter (end=' ') indicates that the end character has to be identified by whitespace and not a newline.

```
print("Hello", end=' ')
print("World")
```

While loops

```
i = 1
while i < 5:
    print(i)
    i += 1
```

Print Series –

5,10,15,20,25,30.....

While loops – break statement

```
secret_number=5
guess_count=0
guess_limit=3

while(guess_count < guess_limit):
    guess = int(input("Guess the number: "))
    guess_count = guess_count + 1
    if (guess==secret_number):
        print("You Win!")
        break
else:
    print("Better luck next time!")
```

For loops

```
for i in range(5): # iterates over a sequence

    print("Hello")

--------------
```

- range(5): generates 0, 1, 2, 3, 4
- range(1, 5): generates 1, 2, 3, 4
- range(1, 5, 2): generates 1, 3

For loop with else

```
n = 23
for i in range(2,n):
    if n % i == 0:
        print("Not a prime number")
        break
else:
    print("Prime Number")
......................

Try with while..else also
```

While loops – continue statement

```
i=0

while (i<5):

    i = i + 1

    if (i==3):

        continue

    print(i)
```

While loops – pass statement

```
i=0

while (i<5):

  i = i + 1

  if (i==3):

    pass

  else:

    print(i)
```