

Loops

- Loop are used to execute a piece of code again and again.

Types of Loop

- i) for loop
- ii) while loop
- iii) do while loop

i) for loop:

Syntax:

```
for (initialization; condition; after through)
{
    _____ } code.
}
```

eg:

```
for (let i=1; i<=5; i++)
{
    console.log ("xyz")
}
```

↓ output

xyz
xyz
xyz
xyz
xyz

eg: let sum=0;

(17)

```
for (let index=1; index<=10; index++)  
{  
  sum = sum + index;  
}
```

console.log(sum);

↓ output → 55

Infinite loop → never ending loop
(not much useful)

↓
condition → always true

while loop

Syntax: let i=1; → initiate
while () { → condⁿ.
 console.log("—");
 i++;
}

Do-while loop

↳ the code must be executed atleast one time as the code is executed first and then checks condition.

eg: let index = 1;

do {

console.log("abc");

index++

} while(index >= 5);

↓
output → abc.

for-of loop

↓
used for iteration
of string.

Syntax:

```
for (let i of str)
{
  console.log(i)
}
```

for-in loop

↓
used to identify
key value of
object.

Syntax:

```
for (let index in stud)
{
  console.log(index)
}
```