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•loops:

repeat the same code upto satisfying the given condition

types of loops:

1)for loop

2)while loop

3)nested loop

  * for loop inside for loop

  * while loop inside while loop

  * for loop inside while loop

  * while loop inside for loop

1) for loop

  2 types

  * for loop with sequence

   syntax:

   for var in sequence_name: #var = ittirative variable

    statements

 * for loop with range()

  syntax:

  range(start value, stop value,step size)

  default start value is: 0

    step size is: 1

 •ex for loop in sequence

  value = "Besant Tech"

```
    for a in value:

      print(a)
```

```
•ex for loop in range()
  for i in range(0,10,1):  #i=0,1,2,3.....9
    print("Besant Tech")
```

```
Q) 1 = odd number
   2 = even number

  10 = even number
```

```
A) for i in range(1,11,1):
     if(i%2==0):
         print(f"{i}= even number")
     else:
         print(f"{i}= odd number")
```

o/p:

```
1= odd number
2= even number
3= odd number
4= even number
5= odd number
6= even number
7= odd number
8= even number
9= odd number
10= even number
```