

Lecture 7

If else statement (#output depends on the value of x)

```
x=eval(input('Enter number'))
```

```
if (x%2==0):
```

```
    print('x is even')
```

```
else:
```

```
    print('x is odd')
```

If.... elif... else statement (#output depends on the value of x)

```
x=eval(input('Enter number'))
```

```
if (x%2==0):
```

```
    print('x is divisible by 2')
```

```
elif (x%3==0):
```

```
    print('x is divisible by 3')
```

```
elif (x%4==0):
```

```
    print('x is divisible by 4')
```

```
else:
```

```
    print('x is not divisible by 2, 3 and 4')
```

while loop with break continue and pass (#2)

```
i,x,a=1,2, input('Enter expression')
```

```
while True if eval(a)>i else False:
```

```
    i=i+1
```

```
    if(i < 3):
```

```
        pass
```

```
    elif((i >= 3) and (i<=5)):
```

```
        continue
```

```
    else:
```

```
        break
```

```
    print(i)
```

for loop examples

Eg1

```
j=1
for i in range(1,5):
    print(j,end=")
#1111
```

Eg2

```
j=1
for i in range(1,5):
    print(j)
#1
#1
#1
#1
```

Eg3

```
j=1
for i in range(1,5):
    print(j, end=' ')
    j=j+1
#1 2 3 4
```

Eg4

```
n=eval(input("No of rows: "))
j=1
for i in range(1,n):
    for k in range(1,i+1):
        print(j,end=' ')
        j=j + 1
    print()
```

#Output

```
No of rows: 5
1
2 3
4 5 6
7 8 9 10
```

Eg5

```
n=eval(input("No of rows: "))
j=1
for i in range(1,n):
    k=1
    while (k < i+1):
        if (j%2==0):
            break
        else:
            print(j,end=' ')
        k=k+1
        j=j+1
    print()
```

#Output

```
No of rows: 4
1
```