

Python (Functions, Loop, Break, Pass, Date & Time)

#User-Defined functions

```
def prim(n):
```

```
    for x in range(2,n):
```

```
        if x%2>=1:
```

```
            break
```

```
    else:
```

```
        print(x)
```

#Let us call the User-defined Function

```
    prim(10)
```

#Pre-defined function

```
abs(-7)
```

```
ascii('b')
```

```
bin(7) #bin() converts an integer to a binary string
```

```
chr(65) #returns the character in python for an ASCII value
```

```
help()
```

#Example for if-else

```
x=int(input("Please enter a number:"))
```

```
if x <= 0:
```

```
    print("negative is zero")
```

```
elif x == 1:
```

```
    print("single")
```

```
else:
```

```
    print("positive and greater than 1")
```


#Example for For-loop

```
courses=['html','c','java','css']
```

```
for i in courses:
```

```
    print(i, len(i))
```

#In the above example, for loop iterates through the list of numbers.

#In the immediate step, if statement filters only the numbers less than 50,

#else it will display "no values" for rest of the iterations.

#Example for break function

```
for x in "python":
```

```
    if x == "o":
```

```
        break
```

```
    print(x)
```

#Example for while loop

```
x=int(input("Please enter a number:"))
```

```
while x<10:
```

```
    x=x+1
```

```
    print(x)
```

#Example for continue function

```
for i in range(10):
```

```
    if (i==4 or i==8):
```

```
        continue
```

```
    print(i)
```

#Another example for continue function

```
for i in range(10,20):
```

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

```
continue
```

```
print(i,'is an odd number')
```

```
#use of PASS statement
```

```
for i in range(100,104):
```

```
    print('Assigned value of i is ',i)
```

```
    for num in range(100,i):
```

```
        print(i,num)
```

```
        if num==102:
```

```
            pass
```

```
range(100,104)
```

```
# usage of date object
```

```
from datetime import date
```

```
# method today() shows the today's date
```

```
today=date.today()
```

```
# let us see the date
```

```
today
```

```
# assigning the date
```

```
d=date(2017,11,7)
```

```
x=d.timetuple()
```

```
x
```

```
# Print the date values from the tuple by year, month, day, etc
```

```
for i in x:
```

```
    print(i)
```


QUALITY THOUGHT

```
# print the iso format of date
```

```
d.isoformat()
```

```
# String formats of date
```

```
d.strftime("%d/%m/%u")
```

```
d.strftime("%A%d.%B %Y") # 'The {1} is {0:%d}, the {2} is {0:%B}.'.format(d, "day", "month")
```

```
#usage of time object
```

```
from datetime import time
```

```
t=time(12,12,12)
```

```
t
```

```
t.isoformat()
```

```
#Now let us work with datetime object and its methods
```

```
# import the datetime, date, time
```

```
from datetime import datetime, date, time
```

```
#date
```

```
d=date(2017,11,7)
```

```
d
```

```
# time
```

```
t=time(10,10)
```

```
t
```

```
# combine both date and time
```

```
datetime.combine(d,t)
```

```
# current date and time
```

```
datetime.now()
```

```
datetime.utcnow()  
dt=datetime.now()  
dt  
# displaying the time tuple  
tt=dt.timetuple()  
tt  
# string format of date and time  
dt.strftime("%A, %d. %B %Y %I:%M%p")  
dt.isoformat()
```

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