Assignment- 2

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```
marks= float(input("Enter the Percentage:"))
if marks > 90:
    print('You have received Grade "A"!!')
elif marks > 80 and marks <=90:
    print('You have received Grade "B"!!')
elif marks >=60 and marks <=80:
    print('You have received Grade "C"!!')
else:
    print('You have received Grade "D"!!')</pre>

Enter the Percentage:34
You have received Grade "D"!!
```

1.

```
price= float(input("Enter the Price of the bike in Rs.:"))
if price >100000:
    print('Tax is 15%')
elif price >50000 and price <=100000:
    print('Tax is 10%')
else:
    print('Tax is 5%')</pre>

    Enter the Price of the bike in Rs.:340000
    Tax is 15%
```

```
city= str(input('Enter the name of a City:'))

if city=='Delhi':
    print('Monument: Red Fort')

elif city=='Agra':
    print('Monument: Taj Mahal')

elif city=='Jaipur':
    print('Monument: Jal Mahal')

else:
    print("City not found in data!")

C> Enter the name of a City:Agra
    Monument: Taj Mahal
```

```
num = int(input("Enter the number: "))

ans = 0
while not (num<=10):
    num = num / 3
    ans += 1

print("Answer is:", ans)

Enter the number: 99
Answer is: 3</pre>
```

4.

5. Python while loop is used to run a block code until a certain condition is met. Here, a while loop evaluates the condition. If the condition evaluates to true, the code inside the while loop is executed. A "While" Loop is used to repeat a specific block of code an unknown number of times, until a condition is met. For example, if we want to ask a user for a number between 1 and 10, we don't know how many times the user may enter a larger number, so we keep asking "while the number is not between 1 and 10".

```
Example:
```

```
num = int(input("Enter the number: "))
```

```
ans = 0
```

```
while not (num<=10):
   num = num / 3
   ans += 1
print("Answer is:", ans)</pre>
```

```
rows= 5
i=1
while i<=rows:
    j=1
    while j<=i:
        print((i*2-1),end=' ')
        j=j+1
        i=i+1
        print(' ')</pre>

$\frac{1}{3} \frac{3}{5} \frac{5}{7} \frac{7}{7} \frac{7}{9} \frac{9}{9} \frace{9} \frac{9}{9} \frac{9}{9} \frac{9}{9} \frac{9}{9} \frace{9}
```

```
rows= 5
i=1
while i<=rows:
    print((i**3))
    i=i+1

1
8
27
64
125
```

```
#reverse a while loop to display numbers from 10 to 1
a=10
while a>=1:
    print(a)
    a=a-1

10
9
8
7
6
5
4
3
2
1
```

```
#reverse a while loop to display numbers from 10 to 1
a=10
while a>=1:
    print(a)
    a=a-1

10
9
8
7
6
5
4
3
2
1
```