

30 JANUARY ASSIGNMENT

1)marks = int(input("enter your marks"))

if marks >90:

print("GRADE A")

elif marks >80 and maks <=90:

print("GRADE B")

elif marks >=60 and maks <=80:

print("GRADE C")

else :

print("GRADE D")

2)CP = int(input("enter cost price")):

if CP > 100000:

print(15%)

elif CP >50000 and CP <=100000:

print(10%)

else :

print(5%)

3)city =str(input("ENTER CITY"))

if city == "Delhi":

print("Red Fort")

elif city == "Agra":

print("Taj Mahal")

elif city == "Jaipur":

print("Jal Mahal")

else:

print("data available only for Delhi,Agra,Jaipur")

4)number = int(input("enter number"))

counter = 0

if number % 3==0

while number >=10:

number =number/3

counter = counter +1

print(counter)

5)When to use a while loop

*while loop is used when number of iterations is not known

*the while loop will continue to run an infinite number of times until the condition is met .

Why to use while loop

*In a while loop ,initialization is always outside the loop . Before or after the execution Of statements ,updates can be performed.

*Generic syntax

*Infinite Loop -if the action inside the loop does not modify the variables being tested in the loops condition,the loop will “run” forever

```
a = 1
```

```
While a ==1:
```

```
    b = input ("what is your name ")
```

```
    Print ("hi",b,"welcome")
```

6) 1st

```
n=int(input("enter number of rows"))
```

```
while i <=n:
```

```
    j=1
```

```
    while j <=i:
```

```
        print("*",end=" ")
```

```
        j = j+1
```

```
    print()
```

```
    i=i+1
```

input=5

Output

```
*
```

```
**
```

```
***
```

```
****
```

```
*****
```

**2nd

```
n = int(input('Enter number of rows : '))
```

```
i = 1
```

```
while i <= n :
```

```
    j = n
```

```
    while j >= i:
```

```
        print("*", end = " ")
```

```
        j -= 1
```

```
    print()
```

```
    i += 1
```

```
**3rd
n = int(input('Enter number of rows : '))
```

```
k = 1
i = 1
while i <= n :
    j = 1
    while j <= i:
        print("{:3d}".format(k), end = " ")
        j += 1
        k += 1
    print()
    i += 1
```

```
7) i = 10
While i >0:
    print(i)
    i = i+1
```