Assignment-1

```python
#1)write a program to print last digit of a number
a=int(input("enter a number"))
print("last digit of number is",a%10)
```

```
    enter a number1234
    last digit of number is 4
```

```python
#2)write a program to check whthre the last number is odd or even
a=int(input("enter a number"))
if(a%2==0):
  print("number is even")
else:
  print("number is odd")
```

```
    enter a number23456
    number is even
```

```python
#3)write a program to check whether the person is eligible for vote or not
age=int(input("enter your age"))
if age>=18:
  print("you are eligible for vote")
else:
  print("you are not eligible for vote")
```

```
    enter your age23
    you are eligible for vote
```

```python
#4)write program grade according to persentage of marks
marks=int(input("enter your marks"))
if marks>=90:
  print("grade A")
elif marks>=80:
  print("grade B")
elif marks>=70:
  print("grade C")
elif marks>=50:
  print("grade D")
else:
  print("fail")
```

```
    enter your marks56
    grade D
```

```python
#5)to display the day in a week according to the number entered
print("sunday=0,monday=1,tuesday=2,wednesday=3,thursday=4,friday=5,saturday=6")
a=int(input("enter a number"))
if a==0:
  print("sunday")
elif a==1:
  print("monday")
elif a==2:
  print("tuesday")
elif a==3:
  print("wednesday")
elif a==4:
  print("thursday")
elif a==5:
  print("friday")
elif a==6:
  print("saturday")
else:
  print("invalid input")
```

```
    sunday=0,monday=1,tuesday=2,wednesday=3,thursday=4,friday=5,saturday=6
    enter a number6
    saturday
```

```python
#6)to check whether number entered is 3digits or not
a=int(input("enter a number"))
if a//1000==0 and a//100!=0:
```

```
    print("number is 3 digit")
else:
  print("number is not 3 digit")
```

```
enter a number23
number is not 3 digit
```

```
#7)to check positive or not
a=int(input("enter a number:"))
if a>0:
  print("number is positive")
elif a==0:
  print("number is zero")
else:
  print("number is negative")
```

```
enter a number:12
number is positive
```

```
#8)to check whether entered num is divisible by 8 and 9
a=int(input("enter a number:"))
if a%8==0 and a%9==0:
  print("number is divisible by 8 and 9")
else:
  print("number is not divisible by 8 and 9")
```

```
enter a number:72
number is divisible by 8 and 9
```

```
#9)to find the largest number in a given three numbers
a=int(input("enter first number:"))
b=int(input("enter second number:"))
c=int(input("enter third number:"))
if a>c and a>b:
  print("first number is largest")
elif b>a and b>c:
  print("second number is largest")
else:
  print("third number is largest")
```

```
enter first number:12
enter second number:23
enter third number:21
second number is largest
```

```
#10)to check enterd character is vowel or not
ch=input("enter a character:")
if ch=='a' or ch=='e' or ch=='i' or ch=='o' or ch=='u':
  print("character is vowel")
else:
  print("character is not vowel")
```

```
enter a character:r
character is not vowel
```

Assignment-2

```
#1)print the pattern 1
#                      1 2
#                      1 2 3
for i in range(1,7):
  for j in range(1,i):
    print(j,end=" ")
  print("\n")
```

```
1

1 2

1 2 3

1 2 3 4
```

```
    1 2 3 4 5
```

```
#2)caluculate the sum of all numbers from 1 to n
n=int(input("enter a number:"))
sum=0
for i in range(1,n+1):
  sum=sum+i
print("sum of all numbers from 1 to",n,"is",sum)
```

```
→▾   enter a number:10
     sum of all numbers from 1 to 10 is 55
```

```
#3)counting total number of digits in a given number
n=int(input("enter a number:"))
count=0
while n!=0:
  rem=n%10
  n=n//10
  count+=1
print("no of digits is:",count)
```

```
→▾   enter a number:12345
     no of digits is: 5
```

```
#4)list problem
l=[2,75,150,180,145,525,50]
for i in range(0,len(l)):
  if l[i]>500:
    break
  if l[i]>150:
    continue
  if l[i]%5==0:
    print(l[i])
```

```
→▾   75
     150
     145
```

```
#5)printing reverse order of a list
l=[10,20,30,40,50]
for i in range(len(l)-1,-1,-1):
  print(l[i])
```

```
→▾   50
     40
     30
     20
     10
```

```
#6)display numbers from -10 to -1
i=-10
for i in range(-10,0):
  print(i)
```

```
→▾   -10
     -9
     -8
     -7
     -6
     -5
     -4
     -3
     -2
     -1
```

```
#7)printing prime numbers
count=0
for i in range(1,101):
  for j in range(2,i):
    if i%j==0:
      count+=1
      break
```

```
#8)printing fibonacci series
a=0
b=1
n=int(input("enter a number:"))
print(a)
print(b)
for i in range(n):
  c=a+b
  print(c)
  a=b
  b=c
```

```
enter a number:5
    0
    1
    1
    2
    3
    5
    8
```

```
#9)factorial of a given number
n=int(input("enter a number:"))
fact=1
for i in range(n,0,-1):
  fact=fact*i
print(fact)
```

```
enter a number:5
    120
```

```
#10)print reverse of a given number
n=int(input("enter a number:"))
rev=0
while n!=0:
  rem=n%10
  n=n//10
  rev=rev*10+rem
print("the reverse of a given number:",rev)
```

```
enter a number:234
    the reverse of a given number: 432
```