Python conditional statement Task4

1.check if a number is positive or negative , or zero

```
a=int(input("enter a number:"))
if (a>0):
print("positive number")
elif (a<0):
print("negative number")
else:
print("True")
```

output:

```
enter a number:18
positive number
```

2.Find the largest number of given three numbers.

```
a=int(input("enter a number:"))
b=int(input("enter a number:"))
c=int(input("enter a number:"))
if (a>b and a>c):
    print("lagest number is:",a)
elif (b>a and b>c):
    print("largest number is:",b)
else :
    print("largest number is:",c)
```

output:

```
enter a number:20
enter a number:5
largest number is: 22
```

3.Check if the character is a vowel.

```
a=input("enter a character:")
vowels=['a','e','i','o','u']
if (a in vowels):
    print("alphabet in vowels")
else:
```

```
    print("alphabet not in vowel")
```

output:

```
enter a character:i
alphabet in vowels
```

4.Check whether a number is even and divisible by 5

```
a=int(input("enter a number:"))
if(a%2==0 and a%5==0):
    print("condition is True")
else:
    print("condition is False")
```

output:

```
enter a number:12
condition is False
```

5.Studenr grade calculation

```
stud1=int(input("enter student marks:"))
if(marks>90+):
    print("stud1 got A grade")
elif(marks>75):
    print("stud1 got B grade")
elif(marks>50):
    print("stud1 got c grade")
else:
    print("stud1 fail")
```

output:

```
enter student marks:95
stud1 got A grade
```

6.Simple Calculator.

```
a=40
b=50
print(a+b)
print(a-b)
print(a*b)
```

```
print(a/b)
```

output:

90

-10

2000

0.8

7.Electricity bill calculator.

```
units = int(input("Enter units: "))
if units <= 100:
    bill = units * 5
elif units <= 200:
    bill = units * 7
else:
    bill = units * 10
print("Total bill amount is:", bill)
```

output:

Enter units: 30

Total bill amount is: 150

8.Check if number is in a list

```
a=int(input("enter a number:"))
list=[10,20,30,40,50]
if (a in list):
    print("number is in a list")
else:
    print("number is not in list")
```

output:

enter a number:20

number is in a list

9.Check login credential

```
user="likhitha"
password=1822107
username=input("enter a name:")
```

```
pass_word=int(input("enter password:"))
check1=user==username
check2=password==pass_word
valid=check1*check2
match="successfull login"*valid+"failed login"*(1-valid)
print(match)
```

output:

```
enter a name:likhitha
enter password:1822
successfull login
```

10.Check if a string is a palinodrome.

```
str="dad"
if (str==str[::-1]):
    print("string is palinodrome")
else:
    print("string is not a palinodrome")
```

output:

```
enter a string:dad
string is palinodrome
```

11.Check if a number is within a range.

```
num=30
if (10<=num<=50):
    print("number with in range")
else:
    print("number is not in range")
```

output:

```
number with in range
```

12.Determine age group.

```
name=input("Enter Name:")
age=int(input("Enter age:"))
if (age<13):
    print("you are child")
```

```
elif(age>13 and age<19):
    print("you are teen")
elif(age>20 and age<59):
    print("you are adult")
elif(age>60):
    print("you are senior")
else:
    print("you are baby")
```

output:

```
Enter Name:karun
Enter age:24
you are adult
```

13.Compare two string ignoring case.

```
str1="barbie"
str2="doll"
print(str1.upper())
print(str2.lower())
```

output:

```
BARBIE
doll
```

14.Traffic light simulator.

```
signal=input("Enter a signal_color:")
if (signal=="green"):
    print("go")
elif (signal=="yellow"):
    print("get ready to go")
elif (signal=="red"):
    print("stop")
else:
    print("heavy traffic")
```

output:

```
Enter a signal_color:yellow
```

get ready to go

15.ATM withdrawal simulation.

```
aval_balance=10000
withdral_amt=1000
total_amount=(withdral_amt*100)-aval_balance
print("aval_balance",total_amount)
```

output:

```
aval_balance 90000
```