### Python

#### Simple If condition questions

```
# q1.wop to check whether the person eligible to vote or not age=int(input('enter the age:')) if age=18: print("you are eligible for vote ")

#2.wop to check wheher character is vowel char=input('enter a char:') if char=='a' or char=='e'or char=='i' or char=='u'or char=='e': print('it is vowel')

if char in 'aeiouAEIOU': print('this is vowel')
```

```
#7.wap to check whether a character is upper case or not

char=input('enter a char:')

if 'A'<= char <='Z':
    | print('it is upper case')

#8.wap to check whether a character is lower case or not

char=input('enter a char:')

if 'a'<= char <='Z':
    | print('it is lower case')
```

```
#3.wap to check character is consonant or not char=input('enter a char:')
if char not in 'aeiouAEIOU':
    print('this is cons')

#4 wap to check whether is even
num=int(input('enter a number:'))

if num%2==0:
    print("number is even")

. wap to check whether the given data is float data type
ta=eval(input('enter the data:'))

type(data)==float:
    print('this is float data type')

.wap to check whether data is mutuble or not
ta=eval(input('enter the data:'))

type(data)==list or type(data)==set or type(data)==dict:
    print('this is mututable dt')

R

type(data) in [list,set,dict]:
    print('mutuable data:')
```

```
#9.wap to check whether a character is digit or not

char-input('enter a char:')

if '0'<= char <='9':

| print('it is digit')

#10. wap to check whether a characater is special char or not

char-input('enter a char:')

if not('A'<= char <='Z' or 'a'<= char <='Z' or '0'<= char <='9'):

print('it is the special character')
```

## If--else condition questions

```
#1.wap to check whether a given number is even or odd
num=int(input('enter a number:'))
if num%2=0:
print('void number')

#2.wap to check whether the number is divisible by 9 or not
num=int(input('enter a number:'))
if num%9=0:
print('number is divisible by 9')
else:
print('number is not divisible by 9')
```

```
#3.wap to check whether given string is palindrom or not 
## maddum,i,malayalam 
str=input("enter the string:") 
if str=-str[::-1]: 
    print("it is palindrom number") 
else: 
    print("it is not palindrom number")
```

# **Elif condition questions**

```
#3.wap to check greater among 3 number

a=int(input('enter first num:'))
b=int(input('enter second num:'))

c=int(input('enter third num:'))

if a>=b and a>=c:
    print(f'(a) is greater num')

elif b>=a and b>=c:
    print(f'(b) is greater number')

else:
    print(f'(c) is greater number')
```

### **Nested Loop questions**

```
# q1.wap to get the following output
s = "mission impossible".split()
out = {"mission": 7, "impossible": 10}
output = {}
for word in s:
    length = 0
    for char in word:
    length += 1
    output[word] = length

print(output)
```

```
# q2. wap to get the following output
s='power star'.split()
out={'power':2,'star':1}
output={}

for word in s:
    length=0
    for char in word:
        if char in('aeiouAEIOU'):
        length+=1
    output[word]=length

print(output)
```

```
i q3. wap to check whether a given integer is strong or not

uum=int(input('enter the number:'))
=str(num)
uum=0

for char in s:
    sum1=1
    for i in range(1,int(char)+1):
        sum1-sum1*1

sum+-sum1

f sum==num:
    print('strong num')
lse:
    print('not a strong num')
```

```
#2 wap to check a given integer is idigit , 2digit , 3 digit or more than 3 digit

#also can be done by type casting

num=int(input('enter a number:'))
if num>-9 and num<-9:
    print('1 digit number')

elif 10<-num<-99 or -99<-num<-10:
    print('2 digit number')

elif 100<-num<-99 or -99<-num<-100:
    print('3 digit number')

else:
    print('more than 3 digits')
```

### **Nested If condition questions**

```
##I.wap to check username and password are correct

og_username='yash123'

uname=input('enter the username:')

if uname==og_username:

pwd=input('enter the password:')

if pwd=sog_password:

print('login successfully v')

else:

print('Incorrect password X')

else:

print('Incorrect username X')

##2 wap to check a given integer is Idigit , 2digit , 3 digit or more than 3 digit

##also can be done by type casting

num=int(input('enter a number:'))

if num==9 and num<=9!

print('digit number')

elif 10<=num<=99 or -99<=num<=-180:
```

```
While Loop condition questions

# gl. wap to print 'kiit is a good college' for 100 times

i = 0

while i < 100:
    print('kiit is a good college')
    i = 1

# gl. wap to extract special case character from the given str

s*Kithne #St*Gaadmi 12345678 they $3*8() sardar 6 andmed $10*8*() they'
    monthle is a good college')

i = 1

# gl. wap to print even number

i = 2

while i < 100:
    print('kiit is a good college')

i = 2

while i < 100:
    print('a, neal='')

i = 2

while i < 100:
    print('a, neal='')

i = 2

# gl. wap to print multipliction table by using user table

num-int(input('enter table num:''))

i = 1

# gl. wap to print multipliction table by using user table

mum-int(input('enter table num:''))

# gl. wap to print multipliction table by using user table

# gl. wap to extract only interger from a given list

1 = [10, 345, 5.6, True, 567, "KIII", [1, 2, 3, 4, 5]]

output = [1]

while i.c lan(!):
    if type(!(i)) == int:
        | output.append([i])

i = 1

print(output)

# gl. wap to extract special case character from the given str

s*Kithne #St*Gaadmi 12345678 they $3*8() sardar 6 andmed $10*8*() they

continues the stribution of sadded $12*25* or 'A'css[1]cs'z' or 'A'css[1]cs'z' or 'O'css[1]cs'z' or 'O'css[1]cs'z' or 'O'css[1]cs'z' or 'A'css[1]cs'z' or 'A'css[1]cs'z' or 'A'css[1]cs'z' or 'A'css[1]cs'z' or 'A'css[1]cs'z' or 'O'css[1]cs'z' or 'O'css[1]cs'z' or 'O'css[1]cs'z' or 'A'css[1]cs'z' or 'A'css[1]cs
```

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```
q9 wap to get following output
= ["ha'", 34, 3.4, "hello", 90, "byebye"]
it = {"hai": "hi", "hello": "ho", "byebye": "be"}
itput = {}
in in 1:
    if type(i) == str:
        output[i] = i[0]+i[-1]
init(output)
```

### **Intermediate-Termination questions**

```
q: Map to check whether the int(input('enter a num:'))
ri in range(2,n):
if năi=0:
    print('not a prime:')
    break
Rei:
  # q2. develop a dynamic login functionality
og_username = 'sanjaysah'
og_password = 'sanjay@123'
while True:

uname = input('Enter your username: ')

if og_username = uname:

pwd = input('Enter your password: ')

if pwd == og_password:

print(' @ Login successfull')

break
```

```
s1 = "1110010100"
s2 = "1100010001"
```

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