PYTHON PRACTICE SET - 4 :- SOLUTION

1) Accept two integer values from the user; display the number which is smaller and the number which is bigger.

Ans:=

```
a=int(input("Enter the number A : "))
b=int(input("Enter the number B : "))

if a>b:
    print(a,"A is greater than B")
    print(b,"B is smaller than A")
else:
    print(a,"A is smaller than B")
    print(b,"B is greater+ than A")
```

2) Accept one integer value from the user; check whether entered number is divisible by 5 or not.

Ans:=

```
a = int(input("Enter the number A : "))
if a%5==0:
    print("The number ",a, "is divisible by 5")
else:
    print("The number ",a, "is not divisible by 5")
```

3) Accept one integer value from the user; check whether entered number is between 0-100 or not.

Ans:=

```
a = int(input("Enter the number : "))
if a>=0 and a<=100:
    print("The number", a , "is Between the range of 0 to 100")
else:
```

```
    print("The number ", a, "is not between the range of 0 to 100")
```

4) Accept one integer value from the user; display the length of the entered number, also display that the entered number is of four digits or not.

Ans:=

```
a = input("Enter the number : ")
b = len(a)
print("The number is ", a)
if b==4:
    print("The number ", a, "is 4 digit number")
else:
    print("The number ", a , "is not a 4 digit number")
```

5) Accept one integer value from the user; display appropriate day of the week.

Ans:=

```
a = int(input("Enter the number : "))
if a == 1:
    print("Sunday")
elif a == 2:
    print("Monday")
elif a == 3:
    print("Tuesday")
elif a == 4:
    print("Wednesday")
elif a == 5:
    print("Thursday")
elif a == 6:
    print("Friday")
elif a == 7:
    print("Saturday")
else:
    print("Please enter a valid number")
```

6) Take choice from the user, and perform the arithmetic operation as per the choice. Choices: 1) Addition, 2) Subtraction, 3) Multiplication 4) Division

Ans:=

```
a=int(input("Enter the number : "))
b=int(input("Enter the number : "))
print("1. Addition")
print("2. Subtraction")
print("3. Multiplication")
print("4. Division")
c = int(input("Enter a number you want you perform your operation"))
if c == 1:
    ans = a+b
    print("The Addition of ",a, "and", b, "is :",ans)
elif c == 2:
    ans = a-b
    print("The Subtraction of ",a, "and", b, "is :",ans)
elif c == 3:
    ans = a*b
    print("The Multiplication of ",a, "and", b, "is :",ans)
elif c == 4:
    ans = a/b
    print("The Division of ",a, "and", b, "is :",ans)
else:
    print("Please enter a valid number from above menu.")
```

7) Accept the string from the user; display the count of vowels and consonants.

Ans:=

```
a= str.lower(input("Enter a string : "))
vowel = 0
consonant = 0
for c in a:
    if c == 'a' or c == 'e' or c == 'i' or c == 'o' or a == 'u':
        vowel += 1
    else:
        consonant +=1
```

```
print("The count of vowels in the string is ", vowel)
print("The count of Consonant in the string is ", consonant)
```

8) Accept one integer value from the user; display the table of it.

Ans:=

```
num  = int(input("Enter a number : "))
count = 1
print("The Table of ",num, "is :")
while count <= 10:
    ans = num * count
    print(num,"x",count," = ", ans)
    count+=1
```

9) Display square and cube of numbers 1-10.

Ans:=

```
count = 1
while count <= 10:
    square = count **2
    cube = count **3
    print("Square of ", count , "is : ",square, "    Cube of ", count ,
"is : ", cube)
    count+=1
```

10) Accept string from the user; convert the string to upper case.

Ans:=

```
a= str(input("Enter the string : "))
b = str.upper(a)
print("The string converted to upper case is  : ",b)
```

11) Display the following output using loop:

i. 1 to 10

ii. 10 to 1

iii. 1 3 5 7 9

iv. 2 4 6 8 10

Ans:=

i.

```
for i in range(1,11):
    print(i,end=' ')
    i=i+1
```

ii.

```
for i in range(10,0,-1):
    print(i,end=' ')
    i = i-1
```

iii.

```
for i in range(1,10,2):
    print(i, end=' ')
    i = i+1
```

iv.

```
for i in range(2,11,2):
    print(i, end=' ')
    i = i+1
```

12) Print 1 2 4 8 16 32 64 128 256 512 1024

Ans:=

```
a=1
while a<=1024:
  print(a, end=' ')
  a=a*2
```

13) Accept the number from the user; display the table of that number.

Ans:=

```
num  = int(input("Enter a number : "))
count = 1
print("The Table of ",num, "is :")
while count <= 10:
    ans = num * count
    print(num,"x",count," = ", ans)
    count+=1
```

14) Accept numbers from the user; display the sum of the entered numbers.

Ans:=

```
print("Enter Numbers and get sum of given numbers,for stop inserting
numbers please enter 0.")
a=1
num = None
sum = 0
while num!=0:
num = int(input("Enter Number: "))
sum += num
a+=1
print("Sum of your entered numbers is :",sum)
```

15) Accept numbers from the user; display the count of the entered numbers.

Ans:=

```
print("Please Enter Numbers,For stop entring numbers enter 0.")
count = 0
a=None
while a!=0:
b = int(input("Enter Number : "))
if(b==0):
```

```
break
count += 1
print("You Entered ",count," Numbers.")
```

16) Accept numbers from the user; find and display number of zeros available in the number.

Ans:=

```
num = int(input("Enter Any number : "))
count = 0
n_str = str(num)
for i in n_str:
if i=='0':
count +=1
print("Numbers of 0 in given number is :",count)
```

17) Accept an integer from the user; tell user that whether entered number is even or odd.

Required output:

Enter the number: 7

7 is an odd number

Do you want to check another number? Y

Enter the number: 2

2 is an even number

Do you want to check another number? N

Ans:=

```
ans = 'Y'
while ans.lower() == 'y':
    num = int(input("Enter any number :"))
    if num%2==0:
        print(num," is an Even Number.")
        print("--------------------------")
        ans = input("Do you want to check another number? Y/N ")
```

```
if  ans.lower() != 'y' and ans.lower()!='n':
    while ans.lower() != 'y' and ans.lower()!='n':
        print("Please enter only Y or N..")
        ans = input("Do you want to check another number? Y/N ")
else :
    print(num," is an Odd Number.")
    print("--------------------------")
    ans = input("Do you want to check another number? Y/N ")
    if(ans.lower() != 'y' and ans.lower()!='n'):
        print("Please enter only Y or N..")
        ans = input("Do you want to check another number? Y/N ")
```