**DECISION CONTROL STSTEMENTS**

**1.SIMPLE-IF STATEMENT:**

**1.TO ACCEPT THE USER NAME AND CHECK AUTHORIZED OR NOT**

name=input("enter the name:")

if name=="python":

print("the given user is authorized")

**OUTPUT:**

enter the name:python

the given user is authorized

**2.IF –ELSE STATEMENT:**

**1.CHECK NUMBERS EVEN OR ODD**

num=int(input("enter any number:"))

if num%2==0:

print("the given number is even")

else:

print("the given number is odd")

**OUTPUT:**

enter any number:14

the given number is even

**3.CHECK THE GIVEN YEAR IS LEAP YEAR OR NOT**

year=int(input("enter any year:"))

if year%4==0:

print("the given year is leap year")

else:

print("the given year is not leap yaer")

**OUTPUT:**

enter any year:2003

the given year is not leap year

**4.PRINT NUMBERS B/W 1 TO 100**

n=int(input("enter any number:"))

if n>=1 and n<=100:

print("the given number",n,"is in between 1 and 100")

else:

print("the given number",n,"is in between 1 and 100")

**OUTPUT:**

enter any number:50

the given number 50 is in between 1 and 100

**5.TO FIND BIGGEST NUMBER AMONG 2 NUMBERS**

num1=int(input("enter the first number:"))

num2=int(input("enter the second number:"))

if num1>num2:

print("the given num1 is biggest number")

else:

print("the given num2 is biggest number")

**OUTPUT:**

enter the first number:17

enter the second number:20

the given num2 is biggest number

**6.ACCEPT 3 NUMBERS AND FIND WHICH IS GREATER NUMBER**

a=int(input("enter the first number:"))

b=int(input("enter the second number:"))

c=int(input("enter the third number:"))

if a>b>c:

print("a is biggest number")

elif b>c:

print("b is biggest number")

else:

print("c is biggest number")

**OUTPUT:**

enter the first number:10

enter the second number:12

enter the third number:20

c is biggest number

**7. ACCEPT A NUMBER AND PRINT WORD IN ENGLISH FORMAT**

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

if num==0:

print("zero")

elif num==1:

print("one")

elif num==2:

print("two")

elif num==3:

print("three")

elif num==4:

print("four")

elif num==5:

print("five")

else:

print(" number is out of range")

**OUTPUT:**

enter a number: 4

four

**LOOPING STATEMENTS**

**1.FOR LOOP**

**8. TO PRINT NUMBERS FROM 0 TO 10**

for i in range(11):

print(i)

**OUTPUT:**

0

1

2

3

4

5

6

7

8

9

10

**9.TO PRINT ODD NUMBERS BETWEEN FROM 0 TO 20**

for x in range(21):

if x%2!=0:

print(x,end=' ')

**OUTPUT:**

1 3 5 7 9 11 13 15 17 19

**10.TO PRINT NUMBERS FROM 10 TO 1**

for x in range(10,0,-1):

print(x)

**OUTPUT:**

10

9

8

7

6

5

4

3

2

1

**11. TO PRINT NUMBER FROM 0 TO 6 EXCEPT 3 AND 5**

for x in range(7):

if x!=3 and x!=5:

print(x)

**OUTPUT:**

0

1

2

4

6

**12.ACCEPT A NUMBER AND PRINT MULTIPLICATION**

n=int(input("enter any number:"))

print("multiplication table of:",n)

print("===========================")

for i in range(1,11):

print(n,"\*",i,"=",(n\*i))

**OUTPUT:**

enter any number:5

multiplication table of: 5

===========================

5 \* 1 = 5

5 \* 2 = 10

5 \* 3 = 15

5 \* 4 = 20

5 \* 5 = 25

5 \* 6 = 30

5 \* 7 = 35

5 \* 8 = 40

5 \* 9 = 45

5 \* 10 = 50

**13.ACCEPT THE LIST AND PRINT THE LIST ELEMENTS AND PRINT SUM OF LIST ELEMENTS**

list=eval(input("enter some list elements:"))

sum=0

for x in list:

sum=sum+x

print("the sum value is:",sum)

**OUTPUT:**

enter some list elements:10,20,30,40,50

the sum value is: 150

**14.TO FIND THOSE NUMBERS ARE DIVISION BY 7 AND MULTIPLICATION OF 5 IN BETWEEN 1 TO 100**

n=int(input("enter a number;"))

for x in range(1,n+1):

if x%7==0 and x%5==0:

print(x)

**OUTPUT:**

enter a number;100

35

7

**2.WHILE LOOP**

**15. TO PRINT NUMBERS FROM 1 TO 10**

i=1

while i<=10:

print(i,end=' ')

i=i+1

**OUTPUT:**

1 2 3 4 5 6 7 8 9 10

**16. TO PRINT NUMBERS FROM 10 TO 1**

i=10

while i>=1:

print(i,end=' ')

i=i-1

**OUTPUT:**

10 9 8 7 6 5 4 3 2 1

**17.ACCEPT A NUMBER AND FIND SUM OF N NATURAL NUMBER**

n=int(input("enter any number:"))

i=1

sum=0

while i<=n:

print(i)

sum=sum+i

i=i+1

print("sum is:",sum)

**OUTPUT:**

enter any number:10

1

2

3

4

5

6

7

8

9

10

sum is: 55

**18. TO FIND THOSE NUMBER ARE DIVISIBLE BY 7 AND MULTIPLICATION OF 5 IN B/W 1 TO 100**

n=int(input("enter any number:"))

i=1

while i<=n:

if i%7==0 and i%5==0:

print(i)

i=i+1

**OUTPUT:**

enter any number:100

35

70