

Python Programming Questions

➤ Program No.1

#Write a python program to print Hello.

```
print("Hello")
```

Output:

Hello

➤ Program No.2

#Write a python program to print student address.

```
print("Anjali Sunil")
```

```
print("37")
```

```
print("Chengannur")
```

```
print("Alappuzha")
```

Output:

Anjali Sunil

37

Chengannur

Alappuzha

➤ Program No.3

#Write a python program to print college address in multiple lines by using single output statement.

```
print("Gregorian Institute of Technology \n  
Kanjirappara PO \n Kangazha \n Kottayam \n 686555")
```

Output:

Gregorian Institute of Technology

Kanjirappara PO

Kangazha

Kottayam

686555

➤ **Program No.4**

#Write a python program to print bussiness address in a single line by using multiple print statements.

```
print("Kausthubham Residency",end=" ")
print("Thiruvandoor",end=" ")
print("Chengannur",end=" ")
print("Alappuzha",end=" ")
print("689109")
```

Output:

Kausthubham Residency Thiruvandoor Chengannur
Alappuzha 689109

➤ **Program No.5**

#Write a python program to print your name within double codes.

```
print("\"Anjali Sunil\"")
```

Output:

"Anjali Sunil"

➤ **Program No.6**

#Write a python program to print address in multiple line using only one output statement and within double codes.

```
print("\"Narayana Bhavanam\" \n \"Mazhukkeer\" \n  
\"Kalliser PO\" \n \"Chengannur\" \n \"Alappuzha\"  
\"689124\"")
```

Output:

"Narayana Bhavanam"

```
"Mazhukkeer"  
"Kallisery PO"  
"Chengannur"  
"Alappuzha"  
"689124"
```

➤ **Program No.7**

#Write a python program to print addition of two numbers.

```
a=20  
b=50  
c=a+b  
print("Addition of two numbers= ",c)
```

Output:

```
Addition of two numbers= 70
```

➤ **Program No.8**

#Write a python program to print subtraction of two numbers.

```
a=100  
b=50  
c=a-b  
print("Subtraction of two numbers= ",c)
```

Output:

```
Subtraction of two numbers= 50
```

➤ **Program No.9**

#Write a python program to print multiplication of two numbers.

```
a=50  
b=2  
c=a*b
```

```
print("multiplication of two numbers= ",c)
```

Output:

```
multiplication of two numbers= 100
```

➤ **Program No.10**

#Write a python program to print Division of two numbers.

```
a=100
```

```
b=25
```

```
c=a/b
```

```
print("Division of two numbers= ",c)
```

Output:

```
Division of two numbers= 4.0
```

➤ **Program No.11**

#Write a python program to print modulo division of two numbers.

```
a=25
```

```
b=3
```

```
c=a%b
```

```
print("Module division of two numbers= ",c)
```

Output:

```
Module division of two numbers= 1
```

➤ **Program No.12**

#Write a python program to find area of square.

```
a=10
```

```
b=a*a
```

```
print("Area of square= ",b)
```

Output:

```
Area of square= 100
```

➤ **Program No.13**

#Write a python program to print area of rectangle.

```
a=10
b=2
c=a*b
print("Area of rectangle= ",c)
```

Output:

```
Area of rectangle= 20
```

➤ **Program No.14**

#Write a python program to print area of circle.

```
r=5
a=3.14*r*r
print("Area of circle= ",a)
```

Output:

```
Area of circle= 78.5
```

➤ **Program No.15**

#Write a python program to print area of triangle.

```
a=5
b=10
c=0.5*a*b
print("Area of triangle= ",c)
```

Output:

```
Area of triangle= 25.0
```

➤ **Program No.16**

#Write a python program to print addition of user given two numbers.

```
a=int(input("Enter first number: "))
b=int(input("Enter second number: "))
c=a+b
print("The addition of user given two numbers= ",c)
```

Output:

```
Enter first number: 10
Enter second number: 20
The addition of user given two numbers= 30
```

➤ **Program No.17**

#Write a python program to print subtraction of user given two numbers.

```
a=int(input("Enter first number: "))
b=int(input("Enter second number: "))
c=a-b
print("The subtraction of user given two numbers= ",c)
```

Output:

```
Enter first number: 50
Enter second number: 30
The subtraction of user given two numbers= 20
```

➤ **Program No.18**

#Write a python program to print multiplication of user given two numbers.

```
a=int(input("Enter first number: "))
b=int(input("Enter second number: "))
c=a*b
```

```
print("The multiplication of user given two numbers=
",c)
```

Output:

Enter first number: 25

Enter second number: 4

The multiplication of user given two numbers= 100

➤ **Program No.19**

#Write a python program to print division of user given two numbers.

```
a=int(input("Enter first number: "))
```

```
b=int(input("Enter second number: "))
```

```
c=a/b
```

```
print("The divison of user given two numbers= ",c)
```

Output:

Enter first number: 200

Enter second number: 4

The divison of user given two numbers= 50.0

➤ **Program No.20**

#Write a python program to print modulo division of user given two numbers.

```
a=int(input("Enter first number: "))
```

```
b=int(input("Enter second number: "))
```

```
c=a%b
```

```
print("Modulo division of user given two numbers=
",c)
```

Output:

Enter first number: 25

Enter second number: 3

Modulo division of user given two numbers= 1

➤ **Program No.21**

#Write a python program to find area of square of user given sides.

```
s=int(input("Enter the side of square: "))
a=s*s
print("The area of square of user given sides: ",a)
```

Output:

Enter the side of square: 10

The area of square of user given sides: 100

➤ **Program No.22**

#Write a python program to find area of rectangle of user given sides.

```
a=int(input("Enter first side: "))
b=int(input("Enter second side: "))
c=a*b
print("The area of rectangle of user given sides=
",c)
```

Output:

Enter first side: 6

Enter second side: 5

The area of rectangle of user given sides= 30

➤ **Program No.23**

#Write a python program to find area of circle of user given radius.

```
r=int(input("Enter the radius: "))
a=3.14*r*r
```



```
print("The area of circle of user given radius= ",a)
```

Output:

```
Enter the radius: 4
```

```
The area of circle of user given radius= 50.24
```

➤ **Program No.24**

#Write a python program to find area of triangle of user given two sides.

```
a=int(input("Enter the first side: "))
```

```
b=int(input("Enter the second side: "))
```

```
c=0.5*a*b
```

```
print("The area of triangle of user given two sides= ",c)
```

Output:

```
Enter the first side: 15
```

```
Enter the second side: 2
```

```
The area of triangle of user given two sides= 15.0
```

➤ **Program No.25**

#Write a python program to read and print an electricity bill.

```
cid=int(input("Enter customer id: "))
```

```
cname=input("Enter customer name: ")
```

```
cadd=input("Enter customer address: ")
```

```
P=int(input("Enter previous reading: "))
```

```
C=int(input("Enter current reading: "))
```

```
X=C-P
```

```
cost=X*3
```

```
stax=(cost/100)*5
```

```
ctax=(cost/100)*10
```

```
tcost=cost+stax+ctax
print("Enter customer id: ",cid)
print("Enter customer name: ",cname)
print("Enter customer address: ",cadd)
print("Previous reading: ",P)
print("Current reading: ",C)
print("No of units consumed: ",X)
print("Cost= ",cost)
print("State tax= ",stax)
print("Central tax= ",ctax)
print("Total cost= ",tcost)
```

Output:

```
Enter customer id: 1234
Enter customer name: Anjali Sunil
Enter customer address: ABCD
Enter previous reading: 1200
Enter current reading: 1500
Enter customer id: 1234
Enter customer name:  Anjali Sunil
Enter customer address: ABCD
Previous reading: 1200
Current reading: 1500
No of units consumed: 300
Cost= 900
State tax= 45.0
Central tax= 90.0
```

Total cost= 1035.0

➤ Program No.26

#A bus is travelling from stage 1 to stage 10 . The cost of adult passenger is 10Rs per stage and cost of child passenger is 5Rs per stage. Then a state tax 15% and a central tax 12% is also applicable on the ticket. Print the bus ticket of the given data.

```
sname=input("Enter service name= ")
fro=int(input("Enter source num= "))
to=int(input("Enter destination num= "))
adults=int(input("Enter no of adults= "))
child=int(input("Enter no of children= "))
stages=to-fro
acost=10*adults*stages
ccost=5*child*stages
cost=acost+ccost
stax=(cost/100)*15
ctax=(cost/100)*12
tcost=cost+stax+ctax
print("Service name= ",sname)
print("From= ",fro)
print("To= ",to)
print("no of adults= ",adults)
print("no of children= ",child)
print("Adult cost= ",acost)
print("Child cost= ",ccost)
print("Cost= ",cost)
print("State tax= ",stax)
```

```
print("Central tax= ",ctax)
print("Total cost= ",tcost)
```

Output:

```
Enter service name= KSRTC
Enter source num= 2
Enter destination num= 8
Enter no of adults= 2
Enter no of children= 3
Service name= KSRTC
From= 2
To= 8
no of adults= 2
no of children= 3
Adult cost= 120
Child cost= 90
Cost= 210
State tax= 31.5
Central tax= 25.200000000000003
Total cost= 266.7
```

➤ Program No.27

#Write a python program to find the value of given expression for the given x&y values

$$z = x^4 + \log y / \sqrt{x + y}$$

```
import math as m
x=int(input("Enter value of x: "))
```

```

y=int(input("Enter value of y: "))
z=(m.pow(x,4)+m.log(y))/m.sqrt(x+y)
print(z)

```

Output:

```

Enter value of x: 2
Enter value of y: 4
7.097924950428697

```

➤ **Program No.28**

#Write a python program to find the value of given expression for the given x&y values

$$z = \sqrt{x} + y^3/e^x + \log_2(y)$$

```

import math as m
x=int(input("Enter value of x: "))
y=int(input("Enter value of y: "))
z=(m.sqrt(x)+m.sqrt(m.pow(y,3)))/(m.exp(x)+m.log(y,2))
print(z)

```

Output:

```

Enter value of x: 2
Enter value of y: 4
1.002679445428525

```

➤ **Program No.29**

#write a program to find the values of given expression for the given x&y values

$$z = \sin(e^x) + \cos(x^y)/\tan(x) + \log_2(x^y)$$

```

import math as m
x=int(input("Enter value of x: "))
y=int(input("Enter value of y: "))
z=(m.sin(m.exp(x))+m.cos(m.pow(x,y)))/(m.tan(x)+m.log
2(m.pow(x,y)))
print(z)

```

Output:

```

Enter value of x: 4
Enter value of y: 8
-0.09620118195626849

```

➤ **Program No.30**

#Write a python program to find the value of given expression for the given x&y values

$$z = \sqrt{e^x + \log(x^y)} + \log_{10}(y^x)$$

```

import math as m
x=int(input("Enter value of x: "))
y=int(input("Enter value of y: "))
z=(m.sqrt(m.exp(x)+m.log(m.pow(x,y))+m.log10(pow(x,y)
))
print(z)

```

Output:

```

Enter value of x: 4
Enter value of y: 2
8.778467397145441

```

➤ **Program No.31**

#Write a python program to find the values of given expression for the given x&y values

$$z = \sqrt{(\log_{10}(e^x) + \log_2(x^y)) / \sin(x^y) + \tan(y^x)}$$

```
import math as m
x=int(input("Enter value of x: "))
y=int(input("Enter value of y: "))
z=m.sqrt((m.log10(m.exp(x)))+m.log2(pow(x,y))/(m.sin(m.pow(x,y)+m.tan(m.pow(y,x)))))
print(z)
```

Output:

Enter value of x: 6

Enter value pf y: 3

3.495988812223207

➤ **Program No.32**

#Write a python program to find and display roots of a quadratic equation for the given a,b,c when

$$x = -b \pm \sqrt{b^2 - 4ac} / 2a$$

```
import cmath as m
a=int(input("Enter value of a: "))
b=int(input("Enter value of b: "))
c=int(input("Enter value of c: "))
d=b*b-4*a*c
root1=(-b+m.sqrt(d))/(2*a)
root2=(-b-m.sqrt(d))/(2*a)
```

```
print("The two real roots of a quadratic equation  
are")  
  
print("Root 1: ",root1)  
  
print("Root 2: ",root2)
```

Output:

```
Enter value of a: 1  
Enter value of b: 2  
Enter value of c: 3  
  
The two real roots of a quadratic equation are  
Root 1: (-1+1.4142135623730951j)  
Root 2: (-1-1.4142135623730951j)
```

➤ **Program No.33**

#Write a python program to find a<b or not.

```
a=int(input("Enter a value: "))  
b=int(input("Enter b value: "))  
  
print(a<b)
```

Output:

```
Enter a value: 10  
Enter b value: 20  
  
True
```

➤ **Program No.34**

#Write a python program ,You will be given three values a,b,c and print true if a is smallest value.

```
a=int(input("Enter a value: "))  
b=int(input("Enter b value: "))  
c=int(input("Enter c value: "))  
  
print(a<b and a<c)
```


Output:

```
Enter a value: 40
Enter b value: 80
Enter c value: 120
True
```

➤ Program No.35

#Write a python program, You will be given a positive integer and print true if it is a power of 2 else print false.

```
a=int(input("Enter a value: "))
print(a & (a-1)==0)
```

Output:

```
Enter a value: 64
True
```

➤ Program No.36

#Write a python program to check given number is positive or not.

```
n=int(input("Enter any number: "))
if n>0:
    print("It is a positive number")
    print("The given number= ",n)
print("End of the program")
```

Output 1:

```
Enter any number: 25
It is a positive number
The given number= 25
End of the program
```

Output 2:

Enter any number: -25

End of the program

➤ **Program No.37**

#Write a python program to check given number is positive or negative.

```
n=int(input("Enter any number: "))
if n>0:
    print("It is a positive number")
    print("The given number= ",n)
else:
    print("It is a negative number")
    print("The given number= ",n)
print("End of the program")
```

Output 1:

Enter any number: 25

It is a positive number

The given number= 25

End of the program

Output 2:

Enter any number: -25

It is a negative number

The given number= -25

End of the program

➤ **Program No.38**

#Write a python program to check given number is even or not.

```
n=int(input("Enter any number: "))
```

```
if n%2==0:
    print("It is an even number")
    print("The given number= ",n)
print("End of the program")
```

Output 1:

```
Enter any number: 10
It is an even number
The given number= 10
End of the program
```

Output 2:

```
Enter any number: 13
End of the program
```

➤ Program No.39

#Write a python program to check given number is even or odd.

```
n=int(input("Enter any number: "))
if n%2==0:
    print("It is an even number")
    print("The given number= ",n)
else:
    print("It is an odd number")
    print("The given number= ",n)
print("End of the program")
```

Output 1:

```
Enter any number: 10
It is an even number
The given number= 10
```

End of the program

Output 2:

Enter any number: 13

It is an odd number

The given number= 13

End of the program

➤ Program No.40

#Write a program to find minimum of given two numbers.

```
a=int(input("Enter any number: "))
```

```
b=int(input("Enter any number: "))
```

```
if a<b:
```

```
    print("a is minimum")
```

```
    print("Value of a= ",a)
```

```
else:
```

```
    print("b is minimum")
```

```
    print("Value of b= ",b)
```

```
print("End of the program")
```

Output 1:

Enter any number: 10

Enter any number: 20

a is minimum

Value of a= 10

End of the program

Output 2:

Enter any number: 30

Enter any number: 15

```
b is minimum
Value of b= 15
End of the program
```

➤ **Program No.41**

#Write a program to find maximum of given two numbers.

```
a=int(input("Enter any number: "))
b=int(input("Enter any number: "))
if a>b:
    print("a is maximum")
    print("Value of a= ",a)
else:
    print("b is maximum")
    print("Value of b= ",b)
print("End of the program")
```

Output 1:

```
Enter any number: 20
Enter any number: 10
a is maximum
Value of a= 20
End of the program
```

Output 2:

```
Enter any number: 15
Enter any number: 25
b is maximum
Value of b= 25
End of the program
```

➤ Program No.42

#Write a program to check given number is positive even or not.

```
n=int(input("Enter any number:"))
if n>0 and n%2==0:
    print("It is a postive even number")
    print("The given number= ",n)
print("End of the program")
```

Output 1:

```
Enter any number:20
It is a postive even number
The given number= 20
End of the program
```

Output 2:

```
Enter any number:7
End of the program
```

➤ Program No.43

#Write a python program to check given character is a vowel or not.

```
c=input("Enter a character: ")
if c=='a' or c=='e' or c=='i' or c=='o' or c=='u' or
c=='A' or c=='E' or c=='I' or c=='O' or c=='U':
    print("It is a vowel")
else:
    print("It is not a vowel")
print("End of the program")
```

Output 1:

```
Enter a character: a
```

It is a vowel
End of the program

Output 2:

Enter a character: A
It is a vowel
End of the program

Output 3:

Enter a character: v
It is not a vowel
End of the program

Output 4:

Enter a character: B
It is not a vowel
End of the program

➤ Program No.44

#Write a python program to demonstrate ATM operation by using Nested if else statement.

```
pin =1234
bal=5000
cash=4000
p=int(input("Enter your PIN number: "))
if p==pin:
    a=int(input("Enter amount: "))
    if a%100==0:
        if a<=bal:
            if a<=cash:
```

```
        print("Withdrawal is success")
        bal=bal-a
        print("Updated balance= ",bal)
    else:
        print("Cash is not available")
else:
    print("Insufficient balance")
else:
    print("Invalid amount")
else:
    print("Invalid PIN number")
```

Output 1:

```
Enter your PIN number: 1234
Enter amount: 3000
Withdrawal is success
Updated balance=  2000
```

Output 2:

```
Enter your PIN number: 1234
Enter amount: 5000
Cash is not available
```

Output 3:

```
Enter your PIN number: 1234
Enter amount: 6000
Insufficient balance
```

Output 4:

```
Enter your PIN number: 1234
```


Enter amount: 3555

Invalid amount

Output 5:

Enter your PIN number: 2345

Invalid PIN number

➤ Program No.45

#Write a python program to display grade of a student.

```
avg=float(input("Enter Average: "))
```

```
if avg>90:
```

```
    print("Grade=A+")
```

```
elif avg>80:
```

```
    print("Grade=A")
```

```
elif avg>70:
```

```
    print("Grade=B+")
```

```
elif avg>60:
```

```
    print("Grade=B")
```

```
elif avg>50:
```

```
    print("Grade=C+")
```

```
elif avg>40:
```

```
    print("Grade=C")
```

```
elif avg>35:
```

```
    print("Grade=D+")
```

```
else:
```

```
    print("Grade=D")
```

Output :

Enter Average: 76

Grade=B+

➤ **Program No.46**

#Write a python program to print day as per user given input.

```
n=int(input("Enter any number: "))
match n:
    case 1:
        print("MONDAY")
    case 2:
        print("TUESDAY")
    case 3:
        print("WEDNESDAY")
    case 4:
        print("THURSDAY")
    case 5:
        print("FRIDAY")
    case 6:
        print("SATURDAY")
    case 7:
        print("SUNDAY")
    case _:
        print("INVALID DAY")
```

Output 1:

```
Enter any number: 2
TUESDAY
```

Output 2:

```
Enter any number: 8
```

INVALID DAY

➤ Program No.47

#Write a python program to perform arithmetic operation based on user selection.

```
print("Choose any one of the following: ")
print("1.Addition \n2.Subtraction \n3.Multiplication\n4.Division")
opt=int(input("Enter your option: "))
match opt:
    case 1:
        a=int(input("Enter first number: "))
        b=int(input("Enter second number: "))
        c=a+b
        print("The addition of two numbers= ",c)
    case 2:
        a=int(input("Enter first number: "))
        b=int(input("Enter second number: "))
        c=a-b
        print("The subtraction of two numbers= ",c)
    case 3:
        a=int(input("Enter first number: "))
        b=int(input("Enter second number: "))
        c=a*b
        print("The multiplication of two numbers= ",c)
    case 4:
```

```
        b=int(input("Enter second number: "))
        c=a/b
        print("The division of two numbers= ",c)
    case _:
        print("Invalid option")
```

Output 1:

Choose any one of the following:

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your option: 1

Enter first number: 10

Enter second number: 20

The addition of two numbers= 30

Output 2:

Choose any one of the following:

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your option: 2

Enter first number: 50

Enter second number: 45

The subtraction of two numbers= 5

Output 3:

Choose any one of the following:

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your option: 3

Enter first number: 12

Enter second number: 3

The multiplication of two numbers= 36

Output 4:

Choose any one of the following:

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your option: 4

Enter first number: 45

Enter second number: 5

The division of two numbers= 9.0

Output 5:

Choose any one of the following:

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your option: 5

Invalid option

➤ Program No.48

#Write a python program to perform find area of Square,Rectangle ,Circle and Triangle as per user selection.

```
print("Choose any one of the following: ")
print("1.Square \n2.Rectangle \n3.Circle \n4.Triangle")
opt=int(input("Enter your option: "))
match opt:
    case 1:
        s=int(input("Enter the side: "))
        a=s*s
        print("The area of Square= ",a)
    case 2:
        l=int(input("Enter the value of length: "))
        b=int(input("Enter the value of breadth: "))
        a=l*b
        print("The area of Rectangle= ",a)
    case 3:
        r=int(input("Enter the radius: "))
        a=3.14*r*r
        print("The area of Circle= ",a)
    case 4:
        b=int(input("Enter the value of base: "))
        h=int(input("Enter the value of height: "))
        a=0.5*b*h
        print("The area of Triangle= ",a)
```

```
case _:  
    print("Invalid option")
```

Output 1:

Choose any one of the following:

- 1.Square
- 2.Rectangle
- 3.Circle
- 4.Triangle

Enter your option: 1

Enter the side: 5

The area of Square= 25

Output 2:

Choose any one of the following:

- 1.Square
- 2.Rectangle
- 3.Circle
- 4.Triangle

Enter your option: 2

Enter the value of length: 6

Enter the value of breadth: 4

The area of Rectangle= 24

Output 3:

Choose any one of the following:

- 1.Square
- 2.Rectangle
- 3.Circle

4.Triangle

Enter your option: 3

Enter the radius: 4

The area of Circle= 50.24

Output 4:

Choose any one of the following:

1.Square

2.Rectangle

3.Circle

4.Triangle

Enter your option: 4

Enter the value of base: 4

Enter the value of height: 6

The area of Triangle= 12.0

Output 5:

Choose any one of the following:

1.Square

2.Rectangle

3.Circle

4.Triangle

Enter your option: 5

Invalid option

➤ Program No.49

#Write a python program to perform banking operation based on user selection.

Pin=1234


```

cash=4000
balance=10000
print("Choose any one of the following: ")
print("1.Deposit \n2.Withdrawal \n3.Balance enquiry
\n4.PIN change")
opt=int(input("Enter your option: "))
match opt:
    case 1:
        P=int(input("Enter PIN: "))
        if P==Pin:
            a=int(input("Enter amount: "))
            if a%100==0:
                balance=balance+a
                print("Updated balance= ",bal)
            else:
                print("Invalid amount")
        else:
            print("PIN is incorrect")
    case 2:
        P=int(input("Enter PIN: "))
        if P==Pin:
            a=int(input("Enter amount: "))
            if a%100==0:
                if a<=balance:
                    if a<=cash:
                        balance=balance-a

```

```

                                print("Updated balance=
",bal)

                                else:

                                print("Cash is not
available")

                                else:

                                print("Insufficient Balance")

                                else:

                                print("Invalid amount")

                                else:

                                print("PIN is incorrect")

case 3:

P=int(input("Enter PIN: "))

if P==Pin:

    print("Balance amount= ",bal)

else:

    print("Incorrect PIN")

case 4:

P=int(input("Enter PIN: "))

if P==Pin:

    P1=int(input("Enter your new pin: "))

    P2=int(input("Confirm your new pin: "))

    if P1==P2:

        Pin=P1

        print("Your PIN changed
successfully")

    else:

```

```
                print("PIN does not match")
            else:
                print("Invalid PIN")
        case _:
            print("Invalid option")
```

Output 1:

Choose any one of the following:

- 1.Deposit
- 2.Withdrawal
- 3.Balance enquiry
- 4.PIN change

Enter your option: 1

Enter PIN: 1234

Enter amount: 2000

Updated balance= 12000

Output 2:

Choose any one of the following:

- 1.Deposit
- 2.Withdrawal
- 3.Balance enquiry
- 4.PIN change

Enter your option: 1

Enter PIN: 1234

Enter amount: 2550

Invalid amount

Output 3:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 1

Enter PIN: 2345

PIN is incorrect

Output 4:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 2

Enter PIN: 1234

Enter amount: 3000

Updated balance= 7000

Output 5:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 2

Enter PIN: 1234

Enter amount: 5000

Cash is not available

Output 6:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 2

Enter PIN: 1234

Enter amount: 12000

Insufficient Balance

Output 7:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 2

Enter PIN: 1234

Enter amount: 1250

Invalid amount

Output 8:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 2

Enter PIN: 2234

PIN is incorrect

Output 9:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 3

Enter PIN: 1234

Balance amount= 10000

Output 10:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 3

Enter PIN: 3456

Incorrect PIN

Output 11:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 4

Enter PIN: 1234

Enter your new pin: 5678

Confirm your new pin: 5678

Your PIN changed successfully

Output 12:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 4

Enter PIN: 1234

Enter your new pin: 5678

Confirm your new pin: 4567

PIN does not match

Output 13:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 4

Enter PIN: 2345

Invalid PIN

Output 14:

Choose any one of the following:

1.Deposit

2.Withdrawal

3.Balance enquiry

4.PIN change

Enter your option: 6

Invalid option

➤ Program No.50

#Write a python program to print numbers from 1 to n by using while loop.

```
n=int(input("Enter any number: "))
```

```
i=1
```

```
while i<=n:
```

```
    print(i)
```

```
    i=i+1
```

Output:

Enter any number: 5

1

2

3

4

5

➤ Program No.51

#Write a python program to print numbers from 1 to n by using for loop.

```
n=int(input("Enter any number: "))
for i in range (1,n+1):
    print(i)
```

Output:

```
Enter any number: 5
1
2
3
4
5
```

➤ **Program No.52**

#Write a python program to print your name for n number of times by using while loop and for loop.

Using while loop

```
n=int(input("Enter any number: "))
i=1
while i<=n:
    print("Anjali Sunil")
    i=i+1
```

Output:

```
Enter any number: 2
Anjali Sunil
Anjali Sunil
```

Using for loop

```
n=int(input("Enter any number: "))
```

```
for i in range (1,n+1):  
    print("Anjali Sunil")
```

Output:

```
Enter any number: 3  
Anjali Sunil  
Anjali Sunil  
Anjali Sunil
```

➤ **Program No.53**

#Write a python program to print numbers in user given range.

```
s=int(input("Enter starting value of the range: "))  
e=int(input("Enter ending value of the range: "))  
for i in range (s,e+1):  
    print(i)
```

Output:

```
Enter starting value of the range: 1  
Enter ending value of the range: 10  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10
```

➤ Program No.54

#Write a python program to print even numbers in user given range.

```
s=int(input("Enter starting value of the range: "))
e=int(input("Enter ending value of the range: "))
for i in range (s,e+1):
    if i%2==0:
        print(i)
```

Output:

```
Enter starting value of the range: 2
Enter ending value of the range: 8
2
4
6
8
```

➤ Program No.55

#Write a python program to find sum of numbers in user given range.

- Using while loop

```
s=int(input("Enter starting value of the range: "))
e=int(input("Enter ending value of the range: "))
sum=0
while s<=e:
    sum=sum+s
    s=s+1
print("Sum of numbers= ",sum)
```

Output:

Enter starting value of the range: 1

Enter ending value of the range: 3

Sum of numbers= 6

- **Using for loop**

```
s=int(input("Enter starting value of the range: "))
```

```
e=int(input("Enter ending value of the range: "))
```

```
sum=0
```

```
for i in range (s,e+1):
```

```
    sum=sum+i
```

```
print("Sum of numbers= ",sum)
```

Output:

Enter starting value of the range: 2

Enter ending value of the range: 4

Sum of numbers= 9

➤ **Program No.56**

#Write a python program to find sum of even numbers in user given range.

```
s=int(input("Enter starting value of the range: "))
```

```
e=int(input("Enter ending value of the range: "))
```

```
sum=0
```

```
for i in range (s,e+1):
```

```
    if i%2==0:
```

```
        sum=sum+i
```

```
print("Sum of numbers= ",sum)
```

Output:

Enter starting value of the range: 2

Enter ending value of the range: 6

Sum of numbers= 12

➤ **Program No.57**

#Write a python program to count number of digits in the given number.

```
n=int(input("Enter any number: "))
d=0
while n>0:
    d=d+1
    n=n//10
print("Number of digits= ",d)
```

Output:

Enter any number: 225

Number of digits= 3

➤ **Program No.58**

#Write a python program to find sum of digits of a given number.

```
n=int(input("Enter any number: "))
sum=0
while n>0:
    rem=n%10
    sum=sum+rem
    n=n//10
print("Sum of digits= ",sum)
```

Output:

Enter any number: 255

Sum of digits= 12

➤ **Program No.59**

#Write a python program to find reverse of a given number.

```
n=int(input("Enter any number: "))
rev=0
while n>0:
    rem=n%10
    rev=rev*10+rem
    n=n//10
print("Reverse of a given number= ",rev)
```

Output:

```
Enter any number: 345
Reverse of a given number= 543
```

➤ **Program No.60**

#Write a python program to check given number is palindrome number or not.

```
n=int(input("Enter any number: "))
a=n
rev=0
while n>0:
    rem=n%10
    rev=rev*10+rem
    n=n//10
print("Reverse of a given number= ",rev)
if rev==a:
    print("Given number is a Palindrome number")
```

```
else:  
    print("Given number is not a Palindrome number")
```

Output 1:

```
Enter any number: 1221  
Reverse of a given number= 1221  
Given number is a Palindrome number
```

Output 2:

```
Enter any number: 123  
Reverse of a given number= 321  
Given number is not a Palindrome number
```

➤ Program No.61

#Write a python program to check the given number is prime or not.

- **Logic No.1- By using n divisions.**

```
n=int(input("Enter any number:" ))  
c=0  
for i in range (1,n+1):  
    if n%i==0:  
        c=c+1  
if c==2:  
    print("Given number is a prime number")  
else:  
    print("Given number is not a prime number")
```

Output 1:

```
Enter any number:2  
Given number is a prime number
```

Output 2:

Enter any number:6

Given number is not a prime number

➤ Program No.62

#Write a python program to check the given number is prime or not.

- **Logic No.2- By using $n/2$ divisions.**

```
n=int(input("Enter any number:" ))
c=0
for i in range (2,n//2+1):
    if n%i==0:
        c=c+1
if c==0:
    print("Given number is a prime number")
else:
    print("Given number is not a prime number")
```

Output 1:

Enter any number:3

Given number is a prime number

Output 2:

Enter any number:8

Given number is not a prime number

➤ Program No.63

#Write a python program to check the given number is prime or not.

- **Logic No.3- By using square root of n.**


```
import math
n=int(input("Enter any number:" ))
c=0
x=int(math.sqrt(n))
for i in range (2,n//2+1):
    if n%i==0:
        c=c+1
if c==0:
    print("Given number is a prime number")
else:
    print("Given number is not a prime number")
```

Output 1:

```
Enter any number:7
Given number is a prime number
```

Output 2:

```
Enter any number:10
Given number is not a prime number
```


