

1.

```
print("Enter two numbers")
a=int(input())
b=int(input())
print("addition of %d and %d is %d"%(a,b,a+b))
```

2.

```
weekday = int(input("Enter weekday day number (1-7) : "))
```

```
if weekday == 1 :
    print("\nMonday");
```

```
elif weekday == 2 :
    print("\nTuesday")
```

```
elif(weekday == 3) :
    print("\nWednesday")
```

```
elif(weekday == 4) :
    print("\nThursday")
```

```
elif(weekday == 5) :
    print("\nFriday")
```

```
elif(weekday == 6) :
    print("\nSaturday")
```

```
elif (weekday == 7) :
    print("\nSunday")
```

```
else :
    print("\nPlease enter weekday number between 1-7.")
```

3.

```
import math
a=float(input("Enter a number : "))
print("square root of ",a,"is",math.sqrt(a))
```

4.

```
l=float(input("enter length: "))
b=float(input("enter breadth: "))
a=float(l*b)
print("Area : ",a)
```

5.

```
x=float(input("Enter side length: "))
area=float(x**2)
```

```
perimeter=float(4*x)
print("Area=",area,"\nPerimeter=",perimeter)
```

6.

```
import math
r=float(input("Enter radius:"))
h=float(input("Enter height:"))
vol=math.pi * r**2 * h
area=(2*math.pi * r * h) + (2*math.pi * r**2)
print("Volume: ",vol,"\nArea: ",area)
```

7.

```
def swap(a,b):
    t=a
    a=b
    b=t
    print("swapped values are a=",a,"and b=",b)
```

```
a=int(input("Enter a:"))
b=int(input("Enter b:"))
swap(a,b)
```

8.

```
import math

a=int(input("Enter a number: "))
if(a<=0):
    print("it is neither even nor odd")
else:
    if(a%2==0):
        print(a,"is even")
    else:
        print(a,"is odd")
```

9.

```
print("Enter three numbers:")
a,b,c=int(input()),int(input()),int(input())

if(a>=b and a>=c):
    print(a,"is the greatest of all")
elif(b>=a and b>=c):
    print(b,"is greatest of all")
else:
    print(c,"is greatest of all")
```

10.

```
import calendar
x=int(input("Enter year:"))
```

```
if(calendar.isleap(x)==True):
    print(x,"is a leap year")
else:
    print(x,"is not a leap year")
```

11.

```
a=int(input("Enter a number: "))
if a==0:
    print("It is 0")
elif a>0:
    print("It is positive")
else:
    print("It is negative")
```

12.

```
print("---Enter marks---")
a,b,c,d,e=float(input()),float(input()),float(input()),float(input()),float(input())
avg=(a+b+c+d+e)/5
print("Average:",avg)
if(avg>=90.0):
    print("Grade A")
elif(avg>=80 and avg<90):
    print("Grade B")
elif(avg>=70 and avg<80):
    print("Grade C")
elif(avg>=60 and avg<70):
    print("Grade D")
elif(avg>=50 and avg<60):
    print("Grade E")
else:
    print("Grade F")
```

13.

```
#a
print("--pattern 1--")
for i in range(5):
    for j in range(i):
        print("*",end="")
    print()

#b
print("--pattern 2--")
for i in range(1,6,2):
    for j in range(i):
        print("*",end="")
    print()
i-=1
while i > 0:
    if i%2!=0:
        for j in reversed(range(i)):
            print("*",end="")
        print()
```

i-=1

```
14.  
i=1  
while i<=100:  
    if(i%2==0):  
        print(i,end=" ")  
    i+=1
```

```
15.  
sum=0  
for i in range(11):  
    sum+=i  
print(sum)
```

```
16.  
n1,n2,cnt=0,1,0  
n=int(input("Enter how many terms: "))  
if n<=0:  
    print("--")  
if n==1:  
    print(n1)  
if n>=2:  
    while cnt<n:  
        print(n1)  
        seq=n1+n2  
        n1=n2  
        n2=seq  
        cnt+=1
```

```
17.  
n=int(input("Enter a number: "))  
ans=1  
for i in range(1,n+1):  
    ans=ans*i  
print("Factorial is : ",ans)
```

```
18.  
n=int(input("Enter a number: "))  
ans=0  
while n>0:  
    d=n%10  
    ans+=d  
    n//=10  
print("sum of digots is",int(ans))
```

```
19.  
num = int(input("Enter a number:"))  
rev = 0  
  
while num != 0:  
    d = num % 10  
    rev = rev * 10 + d  
    num //= 10  
  
print("Reversed Number: " + str(rev))
```

```
-----  
20.  
num=int(input("Enter a number:"))  
temp=num  
rev=0  
while(num>0):  
    dig=num%10  
    rev=rev*10+dig  
    num=num//10  
if(temp==rev):  
    print("The number is palindrome!")  
else:  
    print("Not a palindrome!")
```

```
-----  
21.  
  
n = int(input("Enter any number: "))  
sum1 = 0  
for i in range(1, n):  
    if(n % i == 0):  
        sum1 = sum1 + i  
if (sum1 == n):  
    print("The number is a Perfect number!")  
else:  
    print("The number is not a Perfect number!")
```