1.#simple calculator

```
c=input("enter a string:")
a=int(input("enter the value of a:"))
b=int(input("enter the value of b:"))
if(c=='+'):
 print(a,"+",b,":",(a+b)) elif(c=='-'):
   print(a,"-",b,":",(a-b))
elif(c=='*'):
  print(a,"*",b,":",(a*b))
elif(c=='/'):
  print(a,"/",b,":",(a/b))
elif(c=='%'):
  print(a,"%",b,":",(a%b))
elif(c=='**'):
  print(a,"**",b,":",pow(a,b))
elif(c=='//'):
  print(a,"//",b,":",(a//b))
else:
 print("invalid output")
```

2.#simple interest

```
p=int(input("enter the value of p:"))
t=int(input("enter the value of t:"))
r=int(input("enter the value of r:"))
si=((p*t*r)/100)
print("simple interest:",si)
```

3.#area of circle

```
r=int(input("enter the radius value:"))
area=3.142*r*r
print("area of circle",area)
```

4.

```
#area of the triangle
b=float(input("enter the base value:"))
h=float(input("enter the height value:"))
area=0.5*b*h
print("area of the triangle",area)
```

5.#to convert temperature from celsius to farenheit

```
c=float(input("enter the temperature value in celsius:"))
f=(1.8*c)+32
print("temperature in farenheit:",f)
```

6.#area of rectangle

```
l=float(input("enter the length:"))
b=float(input("enter the breadth:"))
area=l*b
print("area of rectangle:",area)
```

7.

```
#perimeter of square
a=float(input("enter the side value:"))
perimeter=4*a
print("perimeter of the square:",perimeter)
```

8.

```
#circumference of circle
r=float(input("enter the radius value:"))
c=2*3.142*r
print("circumference of the circle:",c)
```

9.

```
#swapping of two numbers
a=int(input("enter a value:"))
b=int(input("enter b value:"))
print("value of a before swapping:",a)
print("value of b before swapping;",b)
a=a+b
b=a-b
a=a-b
print("value of a after swapping:",a)
print("value of b after swapping;",b)
```