Capsule 1 (Do It Yourself)

1)code:

```
name=input("Please enter your name:")
n1=int(input("enter first number:"))
n2=int(input("enter second number:"))
print(f"orginal values are:{n1},{n2}")
n1,n2=n2,n1
print(f"swapped values are:{n1},{n2}")
```

Output:

```
Please enter your name:anu
enter first number:10
enter second number:20
orginal values are:10,20
swapped values are:20,10
```

2) code:

```
radius=float(input("enter the radius of a circle:"))
pi=3.14
area=pi*radius**2
print(f"area of circle is {area}")
```

Output:

```
enter the radius of a circle:10
area of circle is 314.0
```

3)Code:
```
birth_year=int(input("enter your birth year:"))
curr_year=2024
print("your age is",end=":")
print(curr_year-birth_year)
```
Output:
```
enter your birth year:2005
your age is:19
```

4)code:
```
name=input("Please eneter your name:")
fav_cake=input("Please eneter your favorite cake flavor:")
print(f"""
    Hello,{name}!
    We're delighted to serve you your favorite {fav_cake} cake on your birthday.
    Happy Birthday.
    """)
```
Output:
```
Please eneter your name:anu
Please eneter your favorite cake flavor:choko

    Hello,anu!
    We're delighted to serve you your favorite choko cake on your birthday.
    Happy Birthday.
```
5)code:
```
p_a=int(input("enter principal amount:"))
r=int(input("enter rate:"))
t=int(input("enter time:"))
s_i=(p_a*r*t)/100
print(f"simple interest of given inputs is {s_i}")
```
Output:
```
enter principal amount:8
enter rate:6
enter time:8
```

simple interest of given inputs is 3.84