Bank.py

```
name=input('how are you ').lower().strip()
if name.startswith("hello"):
    print('$0')
elif name.startswith("h"):
    print('$20')
else :
    print('$100')
```

```
how are you hlo
$20
```

Camal.

```
camelcase=input("camelcase: ").strip()
print("snake_case: ",end="")
for letter in camelcase:
    if letter.isupper():
        print("_"+letter.lower(),end="")
    else:
        print(letter,end="")
print()
```

```
camelcase: TANISHA
snake_case: _t_a_n_i_s_h_a
```

Coke

```
Amountdue=50
while Amountdue >0:
     print('Amount due',Amountdue)
     coin=int(input('insertcoin: '))
     if coin in [25,10,5]:
         Amountdue-= coin
     else:
         print('invalid ')
changeowed = abs(Amountdue)
print('changeowed:' ,changeowed)
```

```
Amount due 50
insertcoin: 25
Amount due 25
insertcoin: 20
invalid
Amount due 25
insertcoin: 5
Amount due 20
insertcoin: 20
invalid
Amount due 20
insertcoin: 10
Amount due 10
insertcoin: 10
changeowed: 0
```

Deep

```
n = (input('numbers')).lower().strip()
if n=="42" or n=="forty-two" or n=="forty two":
    print('Yes')
else :
    print('No')
```

```
numbers42
Yes
```

Einstien.py

```
m=int(input('mass'))
c =300000000
c1 =c**2
E=m*(c1)
print(E)
```

```
mass42
3780000000000000000
```

Extention

```
suffix=input("suffix").lower()
if '.gif' in suffix:
    print('image/gif')
elif '.jpg' in suffix:
    print('image/jpeg')
elif '.jpeg' in suffix:
    print('image/jpeg')
elif '.png' in suffix:
    print('image/png')
elif '.pdf' in suffix:
    print('application/pdf')
elif '.zip' in suffix:
    print('application/zip')
else:
    print('application/octet-stream')
```

```
suffixtanishagif
application/octet-stream
```

Faces.py

```
name=input("emotions")
name1=name.replace (":)","🙂").replace(":(","☹")
print(name1)
```

```
emotionspulkit:)
pulkit🙂
```

Fuel.py

```
while True:
    fuel = input("fraction: ")
    try:
        num,deno = fuel.split("/")
        num1=int(num)
        deno1=int(deno)
        f=num1/deno1
        if f<=1:
            break
    except(ValueError , ZeroDivisionError):
        pass
p=f*100
if p<=1:
    print("E")
elif p>=99:
    print("F")
else:
    print(f"{p}%")
```

```
fraction: 70/24
fraction: 45.09
fraction: 3/4
75.0%
```

Indoor.py

```
name = input()
name1= name.lower()
print(name1)
```

```
IS IT TRUE
is it true
```

Interpreter.py

```
expression = input("expression: ")

# Find the operator
for op in ['+', '-', '*', '/']:
    if op in expression:
```

```
        x, z = expression.split(op)
        x1 = float(x)
        z1 = float(z)

        if op == '+':
            result = x1 + z1
        elif op == '-':
            result = x1 - z1
        elif op == '*':
            result = x1 * z1
        elif op == '/':
            if z1 == 0:
                result = "Error: Division by zero"
            else:
                result = x1 / z1
        break
else:
    result = "Error: Unsupported operator"

print(result)
```

```
expression: 5+6
11.0
```

Meal.py

```
def main():
     x=input("what's the time").strip()
     h=convert(x)
     if h>6.99 and h<8.01:
          print('breakfast time')
     elif h>11.99 and h<13.01:
          print("lunch time")

     elif h>17.99 and  h<19.01:
         print(" dinner time")
     else:
          print("")
def convert(time):
          hours, minutes = time.split(":")
          a1=int(hours)
          a2=int(minutes)
          t = a1+(a2/60)
          return float(f"{t:2f}")
if __name__=="__main__":
      main()
```

```
what's the time8:09
```

Nutrition.py

```
f=input("item:").lower().strip()
if f == "apple":
        print("calories : 130")
elif f == "banana":
        print("calories : 110")
elif f == "avocado":
        print("calories : 50")
elif f == "cantaloupe":
        print("calories : 50")
elif f == "grapefruit":
        print("calories : 60")
elif f == "grapes":
        print("calories : 90")
elif f == "honeydew melon":
        print("calories : 50")
elif f == "kiwifruit":
        print("calories : 90")
elif f == "lemon":
        print("calories : 15")
elif f == "lime":
        print("calories : 20")
elif f == "nectarine":
        print("calories : 60")
elif f == "orange":
```

```
        print("calories : 80")
elif f == "peach":
        print("calories : 60")
elif f == "pear":
        print("calories : 100")
```

```
item:PEACH
calories : 60
```

Plates.py

```
def main():
    plate = input("Plate: ")
    if is_valid(plate):
        print("Valid")
    else:
        print("Invalid")


def is_valid(s):
    # Rule 1: length between 2 and 6
    if len(s) < 2 or len(s) > 6:
        return False

    # Rule 2: first two must be letters
    if not s[0].isalpha() or not s[1].isalpha():
        return False

    # Rule 3: numbers cannot start with 0
    i = 0
    while i < len(s):
        if not s[i].isalpha():
            if s[i] == '0':
                return False
            else:
                break
        i += 1

    # Rule 4: no special characters
    for c in s:
        if c in ['.', ' ', '!', '?']:
            return False

    return True


main()
```

```
Plate: 8
Invalid
```

Playback.py

```
string=input('string')

name=string.replace(" ","...")
print(name)
```

```
stringT A N I S H A
T...A...N...I...S...H...A
```

Tips

```
def main():
      dollars = dollars_to_float(input("How much was the meal? "))
      percent = percent_to_float(input("What percentage would you like to tip? "))
      tip = dollars * percent
      print(f"Leave ${tip:.2f}")


def dollars_to_float(d):
      d = d.replace("$","")
      return float(d)


def percent_to_float(p):
      p = p.replace("%","")
```

```
        return(float(p)/100)
main()
```

```
How much was the meal? 89.3
What percentage would you like to tip? 23
Leave $20.54
```

twttr.py

```
name= input('string')
print("output:",end="")
for letter in name:
    if not letter in ['a','e','i','o','u']:
        print(letter,end="")
print()
```

```
stringWHATSAPP
output:WHATSAPP
```