Lab 1

```
# 1.1

name=input("Enter Your Name: ")
age=input("Enter Your Age: ")
fav_num=input("Enter Your Favourite nubmer: ")

print("Your Name is "+name+". You are "+ age+ " years old.Your Favourite number is "+ fav
```

```
Enter Your Name: Sneha
Enter Your Age: 22
Enter Your Favourite nubmer: 4
Your Name is Sneha. You are 22 years old.Your Favourite number is 4
```

```
# 1.2

length=int(input("Enter length of rectangle: "))
width=int(input("Enter width of rectangle: "))

area=length*width
print("Area of rectangle is: ")
print(area)
```

```
Enter length of rectangle: 100
Enter width of rectangle: 5
Area of rectangle is:
500
```

```
# 1.3

weight=int(input("Enter your weight (in kg): "))
height=int(input("Enter your height (in m): "))

var_BMI=weight/(height^2)

print("Your BMI is: ")
print(var_BMI)
```

```
Enter your weight (in kg): 50
Enter your height (in m): 1
Your BMI is:
16.666666666666668
```

```
# 1.4
```

```
set_ops={"Sneha","Ashish","Kirthana"}
set_ops1={"Kirthana","Shubham"}
print(set_ops.union(set_ops1))
print(set_ops.intersection(set_ops1))
print(set_ops.difference(set_ops1))
```

```
{'Sneha', 'Kirthana', 'Ashish', 'Shubham'}
{'Kirthana'}
{'Sneha', 'Ashish'}
```

```
# 1.5

a_dict={"Name":"Sneha",
        "Marks1":45,
        "Marks2":50,}
print(a_dict)
print(a_dict['Name'])
```

```
{'Name': 'Sneha', 'Marks1': 45, 'Marks2': 50}
Sneha
```

LAB 2

```
# 2.1

var_age=int(input("Enter Your Age: "))
if var_age > 18:
  if var_age >60:
    print("Senior")
  else:
    print("Adult")
else:
  print("Minor")
```

```
Enter Your Age: 17
Minor
```

```
# 2.2

a=1
while a<=10:
  print(a)
  a+=1
```

```
1
2
3
```

```
4
5
6
7
8
9
10
```

```
#2.3

a=1
while a<10:
  if a==5:
    continue
  print(a)
  a+=1
```

```
1
2
3
4
---------------------------------------------------------------------------
KeyboardInterrupt                         Traceback (most recent call last)
<ipython-input-31-bd4a62645b3c> in <cell line: 4>()
      4 while a<10:
      5   if a==5:
----> 6     continue
      7   else:
      8     print(a)

KeyboardInterrupt:
```

SEARCH STACK OVERFLOW

```
# 2.4

for a in range(1,50):
  if(a%2==0):
    print(a)
```

```
2
4
6
8
10
```

```
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
```

```
# 2.5
```

LAB 3

```
#3.1

def add_func(a,b):
  c=a+b
  return c

a=10
b=5
sum=add_func(a,b)
print(sum)
```

```
15
```

```
# 3.2

def avg_of_list(list_a):
  sum=0
  n=len(list_a)
  for v in list_a:
    sum=sum+v
  return(sum/n)


a=[2,3,4]
avg=avg_of_list(a)
print(avg)
```

```
3.0
```

```
# 3.3

def func_vowel(abc):



# 3.4

a=datetime()
print(a)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-41-0568f7f0ce54> in <cell line: 3>()
      1 # 3.4
      2
----> 3 a=date.datetime()
      4 print(a)

NameError: name 'date' is not defined
```

SEARCH STACK OVERFLOW

LAB 4

```
# 4.1

try:
  a=10
  b="abc"
  add=a+b
  print(add)

except:
  print("non int values cannot be added")
```

```
15
```

```
# 4.2

try:
  a=int(input("Enter a number: "))
except ValueError:
  print("Please check the value")
```

```
Enter a numbera
Please check the value
```

```
# 4.3

try:
  a=10
  b=0
  print(a/b)

except ZeroDivisionError:
  print("Cannot divide by zero")
```

```
Cannot divide by zero
```

```
# 4.4

try:
  my_file=open(abc.txt,'r')

except:
  print("File does not exist. Please create one!")
```

```
File does not exist. Please create one!
```

LAB 5

```
# 5.1

my_file=open('myfile.txt','w')

my_file.writelines("Hello, Python!")


# 5.2

my_file=open('/content/myfile.txt','r')
print(my_file.read())

     Hello, Python!


# 5.3

my_file=open('/content/myfile.txt','a')
my_file.writelines("\n This is from the file")
my_file.close()
my_file=open('/content/myfile.txt','r')
print(my_file.read())

     Hello, Python!This is from the file
      This is from the file


# 5.4

my_file=open('/content/myfile.txt','r')
print(my_file.read())
```