Practical 2

```
# Practical 1
print("Welcome to MSBTE University");
```

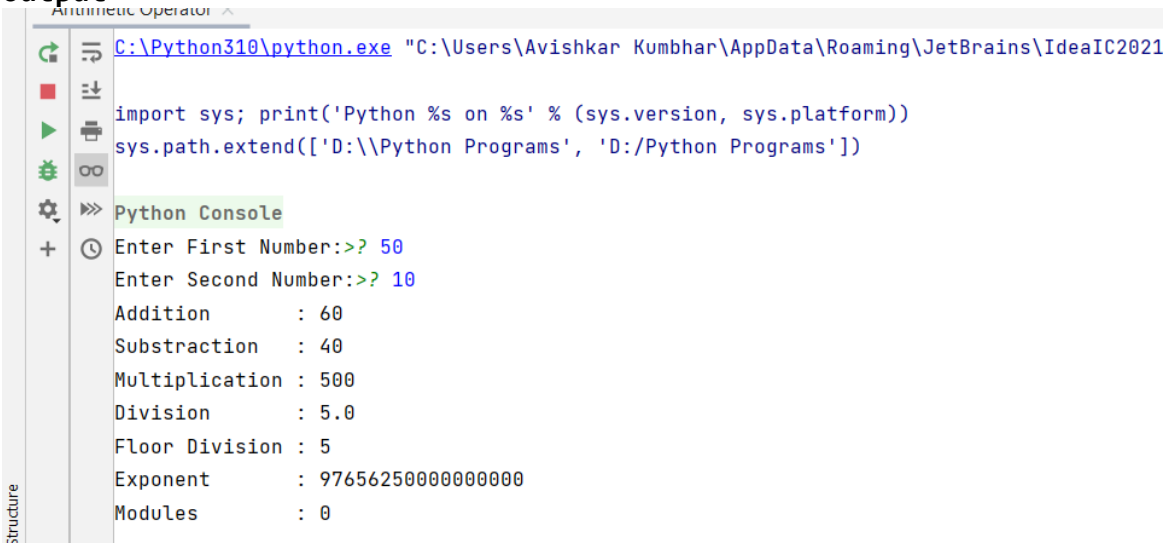
Output:
Welcome to MSBTE University

Practical 3

Program 1

```
# Arithmetic Operator


no1=int(input("Enter First Number:"));
no2=int(input("Enter Second Number:"));

print("Addition       :",no1+no2);
print("Substraction   :",no1-no2);
print("Multiplication :",no1*no2);
print("Division       :",no1/no2);
print("Floor Division :",no1//no2);
print("Exponent       :",no1**no2);
print("Modules        :",no1%no2);
```

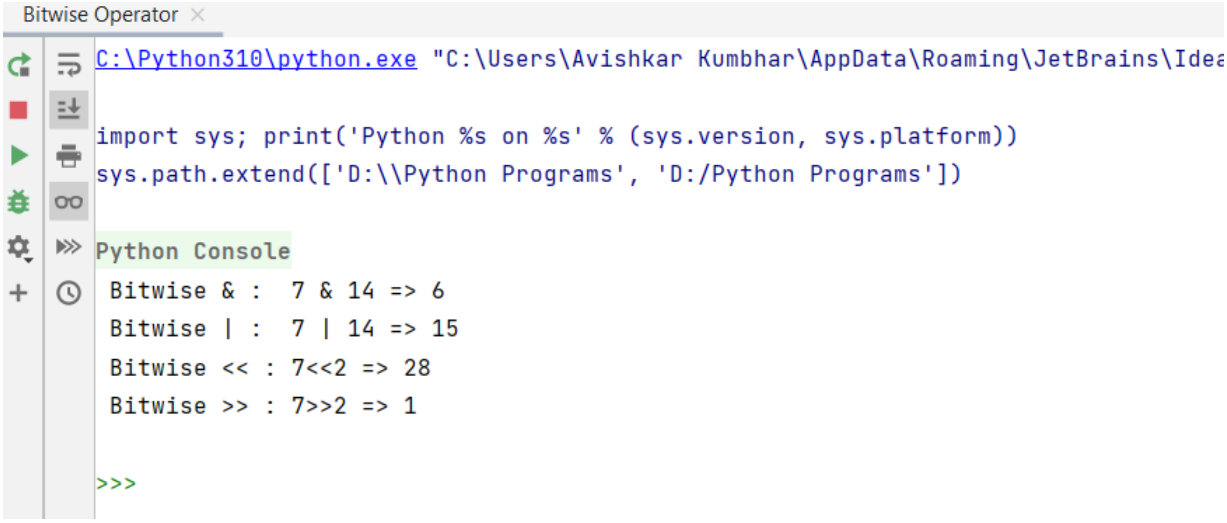
Output =



Program 2

```
#Bitwise Operator
print(" Bitwise & :  7 & 14 =>", 7&14);
print(" Bitwise | :  7 | 14 =>", 7|14);
print(" Bitwise << : 7<<2 =>", 7<<2);
print(" Bitwise >> : 7>>2 =>", 7>>2);
```

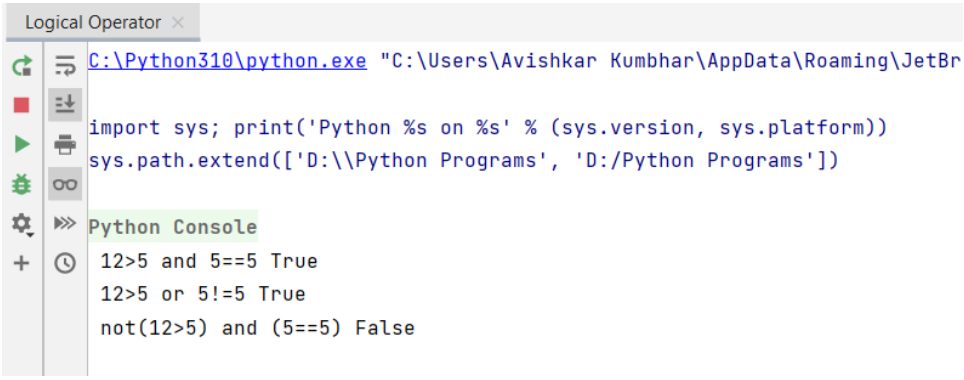
Output:



Program 3

```
#Logical Operator


print(" 12>5 and 5==5", 12>5 and 5==5)
print(" 12>5 or 5!=5", 12>5 or 5!=5)
print(" not(12>5) and (5==5)", not((12>5) and (5==5)));
```

Output:

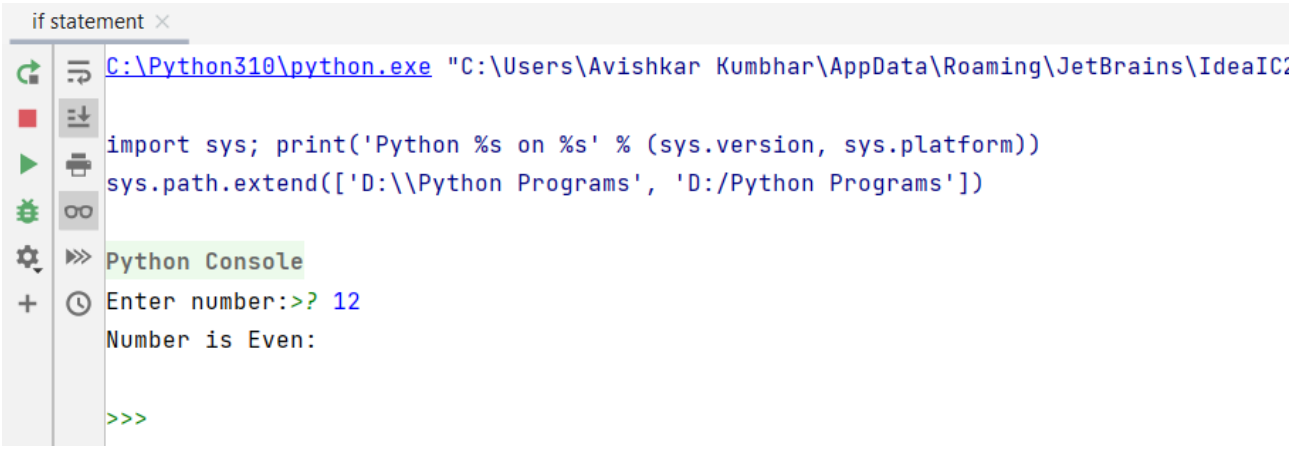


Practical 4

Program 1

```
#Write a program to implement if
no = int(input("Enter number:"));
if no%2==0:
    print("Number is Even:");
```

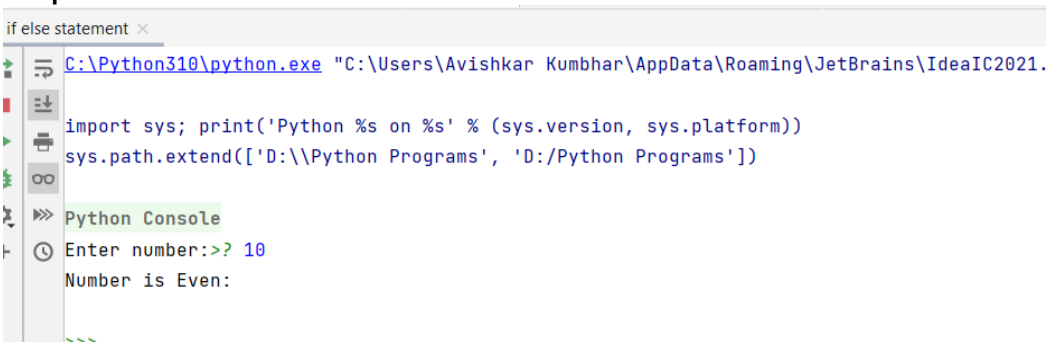
Output:



Program 2

```
#Write a program to implement if-else
no = int(input("Enter number:"));
if no%2==0:
    print("Number is Even:");
else:
    print("Number is odd");
```

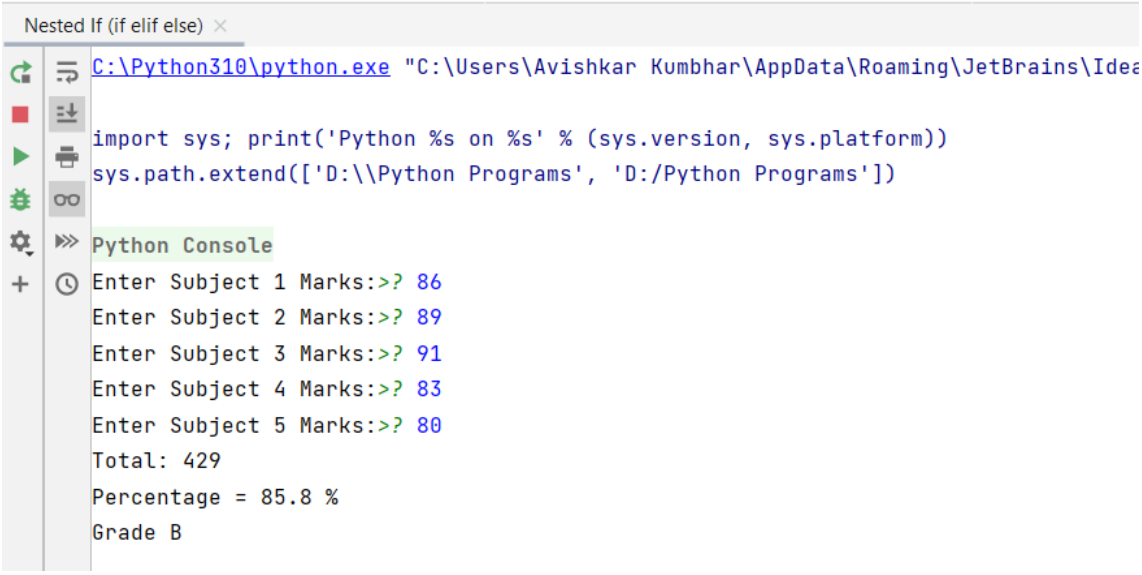
Output:



Program 3

```
#write a prorgram to implement nested if
s1 = int(input("Enter Subject 1 Marks:"));
s2 = int(input("Enter Subject 2 Marks:"));
s3 = int(input("Enter Subject 3 Marks:"));
s4 = int(input("Enter Subject 4 Marks:"));
s5 = int(input("Enter Subject 5 Marks:"));

total = s1+s2+s3+s4+s5;
Avg = total/5;

print("Total:",total);

print("Percentage =",Avg,"%");

if Avg>=90:
    print("Grade A");
elif Avg>=80:
    print("Grade B");
elif Avg>=70:
    print("Grade C");
elif Avg>=60:
    print("Distinction");
elif Avg<=50 and Avg>=35:
    print("Pass");
else:
    print("Fail!!!!");
```

Output:

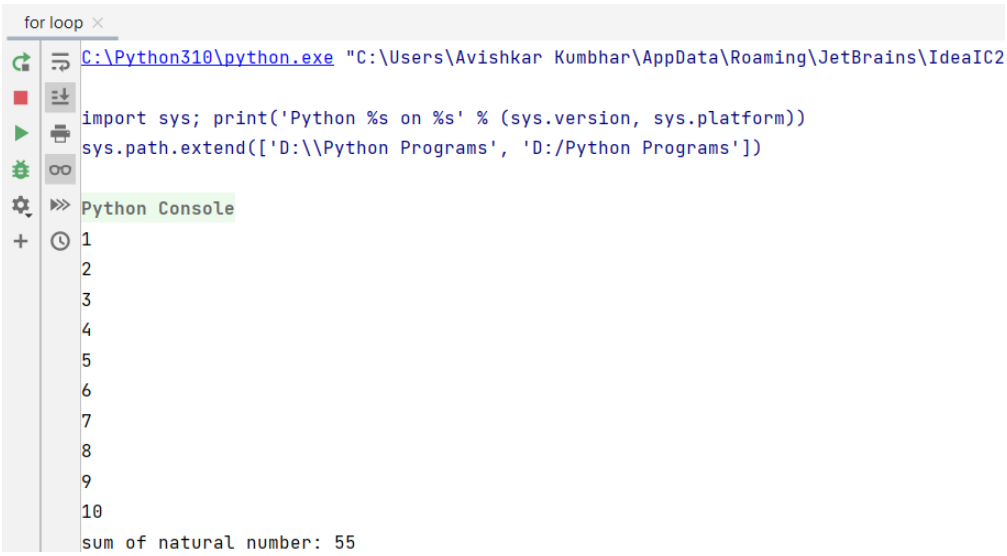


Practical 5

Program 1

```
#write python program to find sum of first 10 natural number using
for loop.
sum = 0;
for i in range(1,11,1):
    print(i);
    sum = sum + i;
print("sum of natural number:",sum);
```

Output:

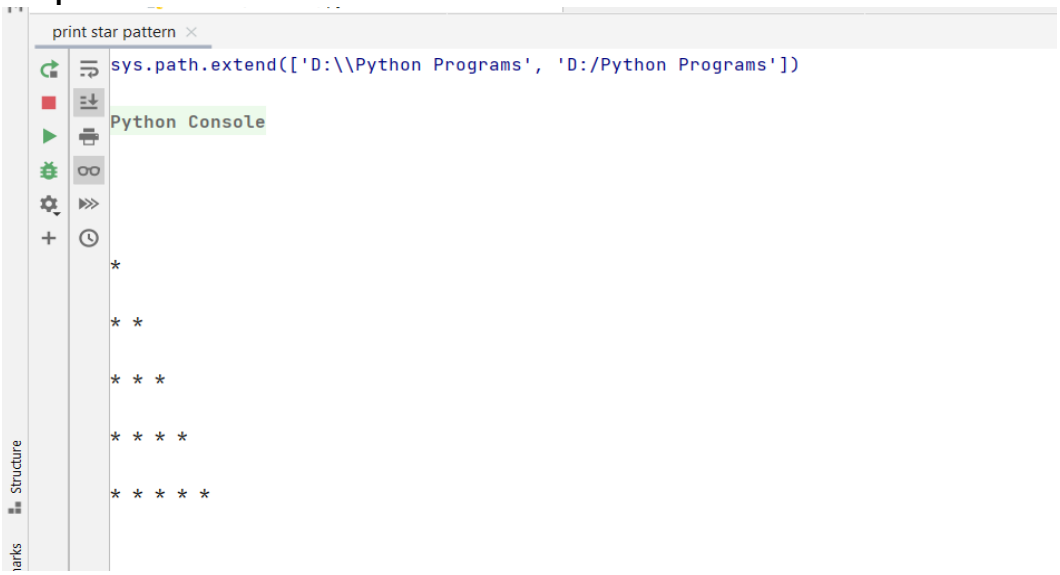


Program 2

```
'''
*
* *
* * *
* * * *
* * * * *
'''

for i in range(0,7,1):
    for j in range(i,1,-1):
```

```
        print("* ",end="");
    print("\n");
```

Output:



Program 3

```
#write a program to print all even numbers between 1 to 100 using
while loop.
i = 1;
while i <=100:
    if i%2==0:
        print(i,sep=", ",end=" ");
    i+=1;
```

Output:

```
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60
62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100
```

Practical 6

```
#List operations
# creating the list
lst = []
n = int(input("Enter How many elements you wants to store.."))
for i in range(0,n):
    ele = int(input())
    lst.append(ele)
print("Your list is = ",lst);

#Updating the Lis
ch = 0;
while ch != 4:
    print("1.insert element")
    print("2.remove element")
    print("3.Delete the list")
    print("4.Exit:")
    ch = int(input())
    if ch == 1:
        index = int(input("At which index do you wants to store
elements:"))
        element = int(input("Enter elements which you wants to
insert:"))
        lst.insert(index,element);
        print("List after inserting:",lst);
    elif ch == 2:
        element = int(input("Enter elements which you wants to
remove from the list:"))
        lst.remove(element);
        print("List after removing:",lst);
    elif ch == 3:
        del(lst);
        print("List deleted...")
    elif ch == 4:
        print("Thank you")
        exit()
    else:
        print("Invalid input")
```

Output:

```
Enter How many elements you wants to store..>? 5
10
20
30
40
50
Your list is =  [10, 20, 30, 40, 50]
1.insert element
2.remove element
3.Delete the list
4.Exit:
1
At which index do you wants to store elements:>? 3
Enter elements which you wants to insert:>? 33
List after inserting: [10, 20, 30, 33, 40, 50]
1.insert element
2.remove element
3.Delete the list
4.Exit:
2
Enter elements which you wants to remove from the list:>? 30
List after removing: [10, 20, 33, 40, 50]
1.insert element
2.remove element
3.Delete the list
4.Exit:
3
List deleted...
1.insert element
2.remove element
3.Delete the list
4.Exit:
4
Thank you
```