1(a) Write a program to calculate the factorial of the given number using for loop

```
n=int(input("Enter the number:"))
fact=1
for i in range(1,n+1):
    fact=fact*i
print("The factorial is",fact)

output:
Enter the number:5
The factorial is 120
```

PY2(a) - Odd or Even

Write a program using functions to check whether a number is even or odd

```
n=int(input("Enter the number:"))
def oddeven(n):
    if n%2==0:
        print("The number is even")
    else:
        print("The number is odd")
oddeven(n);
```

2(a)

```
output 1:
Enter the number:6
The number is even
output 2:
Enter the number:5
The number is odd
                                PY1(b) - Sum of Series
            Write a program to sum the series: 1/1 + 2^2/2 + 3^3/3 + \dots n^n/n
    1(b)
n=int(input("Enter the number:"))
s=0
for i in range(1,n+1):
  a=float(i**i)/i
  s=s+a
print("The sum of series is",s)
Output:
Enter the number:4
The sum of series is 76.0
                             PY2(b) - Reverse the String
            Write a program to create a mirror of the given string. For example,
    2(b)
            "wel" = "lew".
s=input("Enter the string:")
def rev(s):
  return s[::-1]
```

```
print("The\ reversed\ string\ is:",rev(s))
```

Output:

Enter the string: school

The reversed string is: loohcs

PY3 - Generate values and remove odd numbers

3(a)

Write a program to generate values from 1 to 10 and then remove all the odd numbers from the list

```
a=[]

for i in range(1,11):
    a.append(i)

print("The list from 1 to 10\n",a)

for j in a:
    if j%2==1:
        a.remove(j)

print("List after removing odd numbers\n",a)

Output:

The list from 1 to 10

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

List after removing odd numbers

[2, 4, 6, 8, 10]
```