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ROLL NO:

CLASS: TYBBACA

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SET-A

Q.1 Write a python script to calculate sum of digit of a given input number.

```
Ans:
num=123
sum=0

while num!=0:
    digit = int(num%10)
```

sum=sum+digit num=num/10

print("Sum of Digit of a given Number :",sum)

ASSIGNMENT 1

SET-A

Q.2 Write a python script to check whether a input number is Armstrong or not.

SET-A

Q.3 Write a python script to check whether a input number is perfect number or not.

ASSIGNMENT 1

SET-A

Q.4 Write a program to calculate X^Y

Ans:

base=5

expo=2

r=pow(base,expo)

print("Power of :",base,"^",expo,"=",r)

SET-A

Q.5. Write a program to check whether a input number is palindrome or not.

```
Ans:
n=int(imput("Enter a Number: "))
originaln=n;
rev=0
while(n!=0):
    rem=n%10
    rev=rev*10+rem
    n=n//10

if(originaln==rev):
    print(originaln,"is a Palindrome Number.")
```

print(originaln,"is not a Palindrome Number")

ASSIGNMENT 1

SET-A

Q.6 Write a program to accept a number and count number of even, odd, zero digits within that number.

Ans:

else:

SET-B

Q.1 Write a program to accept a number and count number of even, odd, zero digits within that number.

Ans:

ASSIGNMENT 1

SET-B

Q.2 Write a program to accept a binary number and convert it into decimal number.

```
number=int(input("Enter a Number :"))
original=number
decimaln=0
rem=0
i=0
while(number!=0):
    rem=number%10
    number=number//10
    decimaln=decimaln+rem*pow(2,i)
    i=i+1

print(f"{original} in Decimal is : {decimaln}")
```

SET-B

Q.3 Write a program which accepts an integer value as command line and print "Ok" if value is between 1 to 50 (both inclusive) otherwise it prints "Out of range".

Ans:

ASSIGNMENT 1

SET-B

Q.4 Write a program which accept an integer value 'n' and display all prime numbers till 'n'.

SET-B

Q.5 Write python script to accept two numbers as range and display multiplication table of all numbers within that range.

SET-C

Q.1 Write a python script to generate the following pattern upto n lines

1 121 12321 1234321