

PYTHON ASSIGNMENT - 4

Question 1 –

```
#WAP to print all even numbers until n.  
  
n = int(input("Please Enter the Number : "))  
  
for i in range(1,n+1):  
    if(i%2==0):  
        print(i)
```

Question 2 –

```
#WAP to print all odd numbers until n.  
  
n = int(input("Please Enter the Number : "))  
  
✓ for i in range(1,n+1):  
✓ | if(i%2!=0):  
  | print(i)
```

Question 3 –

```
#3 WAP to print sum of series upto n.  
  
n = int(input("Please Enter the NUmber : "))  
  
sum = 0  
  
for i in range(1,n+1):  
    sum = sum + i  
  
print(sum)
```

Question 4 –

```
#4 WAP to print factorial of a number .  
  
n = int(input("Please Enter the NUmber : "))  
  
factorial = 1  
  
for i in range(1,n+1):  
    factorial = factorial * i  
  
print(factorial)
```

Question 5 –

```
#5WAP to print Fibonacci series upto n.

n = int(input("Please Enter the Number : "))

a = 0
b = 1

for i in range(1,n+1):
    print(a)
    c = a + b
    a = b
    b = c
```

Question 6 –

```
#6 WAP to check if a given number is prime number or not.

number = int(input("Please Enter the Number : "))

for i in range(2,number):
    if number % i == 0:
        print("The Number is Not Prime")
        break
else:
    print("The Number is Prime")
```

Question 7 –

```
#7 WAP to print all integers upto n that aren't divisible by 2 and 3.

n = int(input("Please Enthe the Number : "))

for i in range(1, n + 1):
    if i % 2 != 0 and i % 3 != 0:
        print(i, end=" ")
```

Question 8 –

```
#8 WAP to find which numbers are divisible by 7 and multiple of 5 in a given rang

start = int(input("Please Enter the Start of the Range : "))
end = int(input("Please Enter the End of the Range : "))

for i in range(start, end + 1):
    if i % 7 == 0 and i % 5 == 0:
        print(i, end=" ")
    else:
        print("No Number is divisible by 7 and 5 in the Range")
```

Question 9 –

```
#9 WAP to print all numbers in a range divisible by a given number

start = int(input("Please Enter the Start of the Range : "))
end = int(input("Please Enter the End of the Range : "))
divisor = int(input("Please Enter the Divisor : "))

for i in range(start, end + 1):
    if i % divisor == 0:
        print(i, end=" ")

print(f"Are the Numbers in the range {start} to {end} divisible by {divisor}")
```

Python

Question 10 –

#Q10. WAP to check if given number is Perfect Number.

```
● num = int(input("Enter the number:"))
res = 0

▽ for i in range(1,num//2+1):
▽     if num % i == 0:
        res = res+i

▽ if res == num:
    print(num,"is perfect number.")
▽ else:
    print(num,"is not perfect number.")
```

Question 11 –

#Q11. WAP to check if given number Strong Number.(145)

```
num = int(input("Enter your number:"))
a = num
res = 0

while num>0:
    b = num % 10
    fact = 1

    for i in range(1, (variable) i: int
        fact = fact*i

    res = res + fact
    num //= 10

if res == a:
    print(a,"is strong number.")
else:
    print(a,"is not strong number.")
```

Question 12 -

#Q12. WAP to print Armstrong number within a given range(153,9474)

```
num = int(input("Enter your number:"))
b = num
a = num
count = 0
res = 0

while a>0:
    count += 1
    a = a//10

while num>0:
    #num %= 10
    res = res + ((num%10)**count)
    num = num//10

if res==b:
    print(b,"is armstrong number.")
else:
    print(b,"is not armstrong number.")
```

153 is armstrong number.