

Question-1:

Find the hcf of two numbers using recursion.

Code:

```
def hcf(a, b):  
    if b == 0:  
        return a  
    else:  
        return hcf(b, a % b)
```

```
first = 23  
second = 69
```

```
print('HCF of', first, 'and', second, 'is', hcf(first, second))
```

Question-2:

Largest element in an array using recursion

Code:

```
def findMaxRec(A, n):  
    if (n == 1):  
        return A[0]  
    return max(A[n - 1], findMaxRec(A, n - 1))
```

```
# Driver Code
```

```
if __name__ == "__main__":
```

```
    A = [1, 4, 45, 6, -50, 10, 2]  
    n = len(A)  
    print(findMaxRec(A, n))
```

Question-3:

Remove all characters from string except alphabets

Code:

```
String1 = "#Justice!For@Chutki123"
String2 = ""
for i in String1:
    if (ord(i) >= 65 and ord(i) <= 90) or (ord(i) >= 97 and ord(i) <= 122):
        String2+=i
print('Alphabets in string are :'+ String2)
```

Question-4:

Remove all white spaces from string.

Code:

```
s=input()
p=""
for i in s:
    if(ord(i)!=32):
        p+=i
print(p)
```

Question-5:

Print the below pattern

```
1*2*3*4
5*6*7*8
9*10*11*12
13*14*15*16
```

Code:

```
n = int(input("Enter the number of Lines: ")) # Taking Input
a = 1
for i in range(1, n + 1):
    for j in range(1, n):
        print(f'{a}*"', end='')
        a += 1
    print(a)
    a += 1
```