

python worksheet 1

Question	option
1	C
2	B
3	C
4	A
5	D
6	C
7	A
8	C
9	A and C
10	A and B

Question no 11

```
def Factorial(x):  
    if x==1:  
        return 1  
    else:  
        return(x*factorial(x-1))
```

```
num=int(input("Enter a number:"))  
result=Factorial(num)  
print("The Factorial of a number is:",result )
```

Question no 12

```
num=int(input("enter a number:"))  
flag = 0  
if num==1:  
    flag=1  
for i in range(2,num):  
    if (num % i==0):  
        flag =1  
        break  
if flag != 1:  
    print("The entered number is prime number ")  
else:  
    print("The entered number:",num,"is not a prime number .It is a composite number.")
```

Question no 13

```
def isPalindrome(s):  
    return s == s[::-1]  
  
s =str(input("enter a string:"))  
ans = isPalindrome(s)  
  
if ans:  
    print("The entered string:",s,"is palindrome")  
else:  
    print("The entered string is not palindrome")
```

Question no 14

```
import math
perpendicular_height=int(input("enter value of perpendicular_height:"))
base_1=int(input("enter value of base:"))
hypo_1= math.sqrt(perpendicular_height**2+base_1**2)
print("the hypotenuse of the triangle is:" , hypo_1)
```

Question no 15

```
string=str(input("enter string:"))
for i in string:
    frequency = string.count(i)
    print(str(i) + "=" + str(frequency))
```