

Practical No 4

Roll No. 2049

Q1) Write a programs to find the factors of a number

```
def print_factors(x):  
    print("The factors of",x,"are:")  
    for i in range(1, x + 1):  
        if x % i == 0:  
            print(i)
```

```
num = 24  
print_factors(num)
```

Output:

```
= RESTART: C:/Users/DYP/Des  
The factors of 24 are:  
1  
2  
3  
4  
6  
8  
12  
24  
|
```

Q2) Write a program to find even odd number using function

```
def print_factors():  
    num= int(input("Enter a number:"))  
    if num %2==0:  
        print(num,"is even")
```

else:

```
    print(num,"is odd number")
```

```
print_factors()
```

Output:

```
= RESTART: C:/Users/DYP/Des  
Enter a number:45  
45 is odd number  
|
```

Q3) Write a program to calculate area circle and perimeter of circle

```
def print_factors():  
    r= int(input("Enter a radius of circle:"))  
    area=3.14*r*r  
    print(area)  
    print("perimeter of the circle is")  
    perimeter=2*3.14*r  
    print(perimeter)
```

```
print_factors()
```

Output:

```
===== RESTART: C:/Users/DYP/D
Enter a radious of circle:7
153.86
perimeter of the circle is
43.96
```

Q4) Write a program to check if given word is palindrome or not

```
def palindrome():
```

```
    my_str = 'vivekjadhaV'
```

```
    my_str = my_str.casefold()
```

```
    rev_str = reversed(my_str)
```

```
    if list(my_str) == list(rev_str):
```

```
        print("The string is a palindrome.")
```

```
    else:
```

```
        print("The string is not a palindrome.")
```

```
palindrome()
```

Output:

```
===== RESTART: C:/Users/DYP/De
The string is not a palindrome.
|
```