Assignment 4

- Q. Write a program in Python to accept the number and Compute
- 1. Square root of number,
- 2. Square of number,
- 3. Cube of number,
- 4. Check for prime,
- 5. Factorial of number
- 6. Prime factors

MAIN:

```
import module1 as M1
import module2 as M2
import module3 as M3

if __name__ == "__main__":
    numl=int(input("Enter number 1 : "))
    num2=int(input("Enter number 2 : "))

print("Square root of ", num1, " : ", M1.sqrt(num1))
    print("Square root of ", num2, " : ", M1.sqrt(num2))
    print("Square of ", num1, " : ", M3.squr(num1))

print("Square of ", num2, " : ", M3.squr(num2))
    print("Cube of ", num1, " : ", M3.cube(num1))
```

```
print("Cube of ", num2, " : ", M3.cube(num2))

print(num1, "is prime : ", M2.prime(num1))

print(num2, "is prime : ", M2.prime(num2))

print("Factorial of ", num1, " : ", M2.factorial(num1))

print("Factorial of ", num2, " : ", M2.factorial(num2))

print("Prime factors of ", num1, " : ", M2.primefact(num1))

print("Prime factors of ", num2, " : ", M2.primefact(num2))
```

Module 1:

```
def addition(num1, num2):
    sum = num1 + num2
    return (sum)

def sqrt(num1):
    return ((num1)**(1/2))
```

Module2:

```
def prime(num1):
    flag = 'True'
    for i in range(num1-2):
        if ((num1 % (i+2)) == 0):
            flag = 'False'
            break
    return flag
```

```
def factorial(num1):
def primefact(num1):
         11.append(i)
```

Module3:

```
def cube(num1):
    return ((num1)**(3))

def squr(num1):
    return ((num1)**(2))
```

OUTPUT:

