Q.16) Write a menu driven program to implement the following
i)check even or odd
ii)check number is positive negative or zero
iii) generate factors of a number

```python
def evenorodd_check(number):
if num % 2 == 0:
return f"{num} is Even"
else:
return f"{num} is Odd"


def sign(num):
if num > 0:
return f"{num} is Positive"
elif num < 0:
return f"{num} is Negative"
else:
return "The number is Zero"


def factors(num):
factor = []
for i in range(1, numb + 1):
if numb % i == 0:
factor.append(i)
return factor


def Menu():
```

```python
while True:

    print("\nMenu:")
    print("1. Check if the number is Even or Odd")
    print("2. Check if the number is Positive, Negative or Zero")
    print("3. Generate factors of a number")
    print("4. Exit")


    Choice = input("Enter your choice (1/2/3/4): ")

    if Choice == '1':
    number = int(input("Enter a number: "))
    print(evenorodd_check(num))

    elif Choice == '2':
    num = int(input("Enter a number: "))
    print(sign(num))

    elif Choice == '3':
    num = int(input("Enter a number: "))
    factor = factors(num)
    print(f"The factors of {num} are: {', '.join(map(str, factor))}")

    elif Choice == '4':
    print("Exiting program...")
    break

    else:
    print("Invalid choice, please try again.")


Menu()
```