code0.py

```python
import re


def main():
    code = input("Hexadecimal color code: ")
    ...


main()
```

```python
import re


def main():
    code = input("Hexadecimal color code: ")

    pattern = r"#"
    match = re.search(pattern, code)
    if match:
        print(f"Valid. Matched with {match.group()}")
    else:
        print("Invalid")


main()
```

```python
import re


def main():
    code = input("Hexadecimal color code: ")

    pattern = r"#[abcdefABCDEF0123456789]"
    match = re.search(pattern, code)
    if match:
        print(f"Valid. Matched with {match.group()}")
    else:
        print("Invalid")


main()
```

```python
import re


def main():
    code = input("Hexadecimal color code: ")

    pattern = r"#[abcdefABCDEF0123456789]{6}"
    match = re.search(pattern, code)
    if match:
        print(f"Valid. Matched with {match.group()}")
    else:
        print("Invalid")


main()
```

```python
import re


def main():
    code = input("Hexadecimal color code: ")

    pattern = r"^#[abcdefABCDEF0123456789]{6}$"
    match = re.search(pattern, code)
    if match:
        print(f"Valid. Matched with {match.group()}")
    else:
        print("Invalid")


main()
```

```python
import re


def main():
    code = input("Hexadecimal color code: ")

    pattern = r"^#[a-fA-F0-9]{6}$"
    match = re.search(pattern, code)
    if match:
        print(f"Valid. Matched with {match.group()}")
    else:
        print("Invalid")


main()
```