```
Task 1:
   from math import pow
10 """
11 def main(n: int):
      sum = 0
       for i in range(1, n + 1):
         sum += pow(i, 2)
       return sum
   if __name__ == "__main__":
      n = int(input("Enter a number: "))
       print(f"Summation of series: {main(n)}")
1 Output:
23 Enter a number: 5
  Summation of series: 55
   Task 2:
   11 11 11
   11 11 11
   def main(n: int):
      sum = 1
       for i in range(3, n + 1, 3):
         sum += 1 / i
       return sum
   if __name__ == "__main__":
       n = int(input("Enter a number: "))
       print(f"Summation of series: {main(n)}")
   Output:
   Enter a number: 12
```

```
Task 3:
11 11 11
def main(width: int, height: int):
    return width * height
if __name__ == "__main__":
    width, height = tuple(map(lambda i: int(i), input("Enter width and height: ").strip().split()))
    print(f"Area of the rectangle is: {main(width, height)}")
Output:
Enter width and height: 5 6
Area of the rectangle is: 30
______
Task 4:
from math import pi, pow
11 11 11
def main(radius: int):
    return pi * pow(radius, 2)
if __name__ == "__main__":
    r = int(input("Enter the radius: "))
    print(f"Area of the circle is: {main(r)}")
Output:
Enter the radius: 5
Area of the circle is: 78.53981633974483
Task 5:
from math import pow
11 11 11
11 11 11
def main(length: int):
    return pow(length, 2)
if __name__ == "__main__":
    l = int(input("Enter the length: "))
    print(f"Area of the square is: {main(l)}")
Output:
Enter the length: 5
Area of the square is: 25
```



## সামসুল হক খান স্কুল আন্ড কলেজ

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